

BOOK 7

8483 - 10,263

Ethiopia

Field Notes for Ethiopia

1950 - 1951

W. Andrew Archer

In case of loss please send to
American Embassy
Addis Ababa.

Explanatory note relative to m

Pure seed samples will be the
Ethiopian farmers do not readily
of barley, wheat, beans, etc.
several distinct types of plant
nodding heads, etc. Still more
more mixed because small job-lot
purchases in one sack.

For the sake of P.I. numbering
to sort all seed by color pattern
procedure will not suffice to p

Field Notes for Ethiopia

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Explanatory note relative to mixed seed samples.

Pure seed samples will be the exception rather than the rule. Ethiopian farmers do not readily distinguish between various types of barley, wheat, beans, etc. A single field of barley may display several distinct types of plants - 4-row, 6-row, black glumes, nodding heads, etc. Still more, market samples are apt to be even more mixed because small job-lot buyers are inclined to mix various purchases in one sack.

For the sake of P.I. numbering I shall attempt, where feasible, to sort all seed by color patterns, size, etc., but obviously this procedure will not suffice to produce pure seed samples.

note bene:

1-10-

Symbols & Abbreviations

A.S. = Spec. made for chemical analysis

Cult. = Cultivated plant.

Bulb I = Bulb introduction for propagation

R.C.I, S.C.I = Root cutting introduction
or stem cuttings introduction for propagation

S.I. = Seed introduction for propagation

Roll = Seed sample for Russell seed collection

R 1-1 = Photograph Roll 1, exposure 1, etc.

= Fungus collection for Mr. Stevenson

les I = root nodules sent for culture

n.s = east, west, north & south resp.

= flower.

= fruit.

ft. = feet

in. = inches

K. = kilometers

(Am.), (Da), (Ga), (Ti) following^a vernacular name

= Amharic, Danachilli, Galla, Tigari resp.

* in front coll. no. = herb. spec. made.

note bene:

8 1010-

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e, w, n, s = east, west, north & south resp.

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E. Haubensak
is seed grower, ~~a firm~~ near
Vienna 1

8484-8501

From grocery shop Addis Ababa
Commercial seed of vegetables. ~~Said to be~~
~~grown in Czechoslovakia~~ + distributed by
Austrian ~~German~~ firms. 10/6/1950 S.I. only

8484

"Kohlrabi" (347) F.B. Schmidt.

8485

"sellerie" Riesem-Kugel (172) E. Haubensak

8486 Carrot.

"Karotte" nantaise (91) E. Haubensak

8487 Lettuce

"Schnittsalat" (³⁷~~43~~) Haubensak

8488

"mangold" (184) E. Haubensak.

8489 Lettuce

"Kopfsalat." (462) F.B. Schmitt

8490 Cabbage

"Weisskraut" (47) E. Haubensak

8491

"Persil commun" (335)

8492 Tomato

"Paradeiser Tomate" (490) F. B. Schmidt

8493

"Kürbis" (362) " " "

8494 Carrot

"möhre" (97) E. Haubensah

8495 Brussels sprouts

"Sprossen kohl" (71) " "

8496 Beans

"Dwarf wax beans" (896) E. Haubensah
D. Reichsanziger

8497

"spinal, neuseeländer" " "

8498 Carrot

"Karotten" (404) " "

8499 Eggplant

"melanzana" (187) Ronde, Italy?

8500 melon

"popone" (537) Italy?

8501 watermelon

"anguria" (11) "

8502 — ⁸⁵¹⁰ native
various, seed from grocery stores

Addis Ababa, 10/6/50 S.I. only

— 8502 *Arachis hypogaea*

— 8503 Bean

pale brown

— 8504 Lens

"lentil" dark brown

— 8505

"white bean"

— 8506

"white bean"

— 8507 Lens

"Lentil" mixed brown + black

— 8508 *Pisum*

Pea

— 8509

Bean, brown with black stripes

— 8510

Bean pale brown with reddish markings

8511 *Citrus nobilis*

"Tangerine"

Seed from various fruits. Frt. about 8 ^{3 in diam} ~~cm~~

diam. Delicious flavor. The common fruit here.

Addis Ababa. 10/6/50

- 8512 *Picinus communis*

"Castor bean" "gulo" (Am.)

In main park. 15 ft. high. Trunk 8 in diam

Seed from last season frts, dried on tree.

Addis Ababa 10/7/50

* 8513 *Trifolium*

"Bur clover" In garden. ^{Raz Hotel, Addis Ababa} Prostrate, flr. yellow

S.I.

10/7/50

- 8514

"Hollyhock. Dwarf plant 1 1/2 ft. high

Flr. not seen. Raz Hotel, Addis Ababa

10/7/50 ~~S.I.~~ S.I. only

8515 - 8517 commercial seed, Store in 10/8/50

Addis Ababa same date as 8484 - 8501

8515.

"Cucumber" "Gurken" (307) E. Haubensack

8516

"Leek" "Porree" (410) F. B Schmidt Wien

8517

Parsnip? "Wurzelpetersilie" ⁽¹⁰⁷⁾ E. Hantschak.

8518 - 8522

Cult wheat collected by Mr. Perry Fellows
in various parts of Ethiopia 1950

- 8518 Cult wheat
Shoa Province

- 8519 Cult wheat Province unknown

- 8520 " " " "

- 8521 " " " "

- 8522 " " " "

- 8523 from

"inkordade" (Am) = (weed)

Weed seed contamination selected from ^{wheats} No.

8519 - 8522. Ethiopia 1950.

S. coll. only (See 10,038)

- 8524 (*Lolium temulentum*?) Avena sp.

Weed seed contamination "inkordade" (Am) = weed
Selected from wheats no. 8519-8522.

Ethiopia 1950. Said to be poisonous

to animals & also to humans when used as
flour. This is one of the main factors which
contributes to low price of Eth. wheat when
exported. S. coll. only

8525 - 8540
 See data as 8484-8501

Oct. 16, 1950

8525 Beets

"rote rübe" (440)

Schmidt

8526 Endive

(474)

"

8527 Bell pepper

"paprika" (400)

"

8528 Bell pepper

"paprika" -

Hautensak

8529 Leek

"porree" (114)

"

8530 radish

"radies" (420)

Schmidt

8531 Tomato

"paradeiser" (492)

"

8532 cucumber

"gurken" (³⁸~~173~~)

Hautensak

8533 Dill

"dillkräutl" -

"

8534 parsnip

"petersilienwurz" (406)

"

8535 Spinach

"spinal" (687)

?

8536 cabbage

"Rotkraut" (328)

Hautensack

8537 cauliflower

"Karfiol" (42)

"

8538

"Kohlrabi" (¹⁵~~173~~)

"

8539 squash?

"Zierkürbis" (364)

Schmidt

8540 nasturtium

"Kapuzinerkresse" (110)

Hautensack

see no. 8611.

8541 Spinach

"spinal" (1508)

?

- 8542 cult. bean

From grocery store A. / Atata 10/6/50

pale brown with irregular red markings

Infested with weevils but sprayed with aerosol

Over 1/2 ~~half~~ germinable per test by me.

SI only

- 8543 cult bean

Grocery store A/Addis 10/6/50

pale brown to near black. Sorted out
from other mixed samples. (See note
on page 1 under symbols.

8544 - 8606

Seed cult notes

~~8544~~ cult corn from market Addis Ababa

Oct 11, 1950

S. I. only

- 8544 Corn, red
- 8545 Barley, white.
- 8546 "
- 8547 "
- 8548 Wheat
- 8549 Pear, mixed ?)
- 8550 Wheat
- 8551 Barley (mixed) ?
- 8552 Wheat (mixed)

also some barley

- 8553 corn, white
with a few blue grains

- 8554 Chickpea, white

- 8555 Emmer, white

used for food just as barley

- 8556 Wheat, pure, white

- 8557 Cotton

Seed used to grease metates before
grinding other food grains

- 8558 Sorghum, red

used for tulla beverage, also roasted like
popcorn.

- 8559 Chickpea, mixed var.

- 8560 Garlic, white

Bulbs only

- 8561 pear, mixed var.

- 8562 chickpea, large roasted like popcorn

- 8563 wheat, brown

- 8564 Chickpeas

mixed black & brown

- 8565 pea, white

- 8566 Onion, red

sets only. When planting the top is cut off at slant upward
only for red onion. Then ashes put on part to be planted.

- 5567 Wheat, white
- 5568 Emmer, mixed black & white
- 5569 peas, mixed var.
- 5570 Wheat, mixed var.
- 5571 " black
- 5572 corn, mixed?
- Red, yellow, white & blue grains
- 5573 Chickpea, black
- 5574 Brassica
- "goman"^(am) green leaves cooked, ~~seed~~^{oil} from seed
used in cooking is for guddles
- 5575 Corn, blue
- 5576 Sorghum, red
- 5577 ^{Barley} ~~Oats~~, mixed white & black
from Mecha Prov.
- 5578 Barley
from Asella Prov.
- 5579 Lentil, brown
- 5580 broad bean, mixed var.

- 8581 Lathyrus
"guaya" (Am.).
- 8582 Chickpea mixed var.
- 8583 Bean, white
- 8584 Sorghum, red
- 8585 " "
- 8586 Broad bean, (mixed?)
- 8587 Eragrostis
"red teff"
- 8588 Eragrostis
"white teff"
- 8589 Lentil, black
- 8590 Eragrostis, mixed
teff, mixed var.
- 8591 Emmer, white
- 8592 Chickpea, mixed
- 8593 Flax

Used for oil only - not for fiber

- 8594 Flax, white

Used for oil only, not for fiber

- 8595 *Carthamus*

"suff" (Am). Used for oil and for food

Grown in Adaa

- 8596 *Gingobia*

"nug" (Am). Used for oil. Important export crop

- 8597 Pumpkin

Fruit used as food, also ground seed for
Tapeworm

- 8598 *Carum copticum*

"white cumin" used to flavor national
dish called watt.

- 8599 ~~wheat~~ / *Hordeum*?

"^{white}temage" (Am).

- 8600 *Carum*

"black cumin" used in national dish
watt for flavor

- 8601 *Coriandrum*

Used as flavoring in foods.

- 8602 Wheat, mixed

also some barley.

- Hordeum?
- 8603 ~~Wheat, blue~~
Black "temage" (am.)
 - 8604 ~~Wheat~~, white
 - 8605 Capsicum

"Berberri" Frt. red $1\frac{1}{2} \times \frac{3}{4}$ in. Used extensively in Eth. foods. Powerful odor + flavor.

- 8606 Capsicum.

"Berberri" Frt. red ca 3 in long. not ^{nearly} as strong as 8605

-
- * 8607 Cult. comp.

Ornamental. Raz Hotel Addis Ababa, 2 ft high, lv. glaucous; flr yellow; profuse bloomer. Sept. 23, 1950

S.I.

- * 8608 Marigold, cult.

Ornamental, Raz Hotel, Addis Ababa
Apparently hybrid, mixture and ^{all} variation between single + double yellow rays to single + double dark red. Sept. 23, 1950

S.I.

* 8609 *Cosmos*, cult.

Hybrid? Raz Hotel, Addis Ababa
White petals with pinkish blush at base
of petal. Other *Cosmos* in garden are
white, red & pink.

Sept. 23, 1950 S.I.

* 8610 *Nicotiana tabacum*

Raz Hotel garden, Addis Ababa

Seen commonly in gardens in A. Ababa.

Also said to be common 1-several plants
around country houses. Amharas do not
smoke but do chew cured leaves.

Sept. 23, 1950 Green tube, pink limb

S.I.

- 8611 *Nasturtium*

Cult ornamental. Amer. Legation

Addis Ababa. Oct. 5, 1950 Flr. yellow ^{to orange}

Grows profusely to height of 5 ft. making
effective, dense green curtain.

Probably same original source as

no. 8540. Vienna seed. S.I. only

8612 barley, white
market Addis A. 10/11/50
S.I. only

* 8613 Cult peach

Flr. pink.

Garden Am. Leg.
Addis Ababa Oct 6 1950

Host of 2 fungi

H-478 + H-479

- * 8614 *Juniperus procera*

Cult. tree. One of important forest trees
of Eth. Resistant to rot and termites.

Street tree Addis A. Also on grounds
Amer. Legation. Oct 7 1950

S.I., S. coll.

* 8615 *Physalis*

"ant" (Am) Woody herb. 1 1/2 ft high. Flr.
pale yellow with dark basal spot. Frt.

edible. Grounds Am. Leg. ^{a/ababa} Oct. 7, 1950

S.I. (See 10069)

* 8616 *Trifolium*

8616-7 Vacant ground. a./ababa Sept. 29, 1950

* ^{we} 8617 *Trifolium*

Growing among rank grasses
ditto local

* 8618 } 8618-8624

mun. water works dam ²⁵~~45~~ K. s.w. A. Ababa
10/8/50

* 8619 *Delphinium*

2-3 ft high. Occasional white phase
occurs. Fls. picked by country boys
+ sell to townspeople. (See 10/11)

* 8620 comp.

Damp soil

* 8621 *Avena*

as a weed in cult. barley field.

* 8622 grass

near edge barley field

* 8623 *Asparagus*
"wild asparagus"

Woody to 2 ft high. Yg shoots collected ^{on hillside} by
country boys to sell in A. Ababa. Delicious
vegetable. greatly apprec. by foreign colony.

* 8624 Cult Barley

Field just beginning to head, leaf stripe severe
also scanty leaf rust
H-484 H-485

8625-8646

Hollata, 45 K. S.W. Addis Ababa

10/9/50 S. I. I. Prov.

Cereal farm for Addis Ababa brewery.
all have herb spec

* 8625 cult flax

used for oil seed, not for fiber.

* 8626 Rumex abyssinica

"mocomoco"

Root for butter color, also
Fence row plant. 2-3 ft high. general
medicine

S I + S. Coll

8627 Grasses

Along edge of barley field. Host of leaf rust

H-487

8628 Eragrostis

"Black teff" From cult. field.

8629 Pisum

Cult. plant. from field. Ca 18 in high;

Flr. wing lvs. striped, keel deep purple

H-489

8630 Vicia faba "baquela" (Am.)

from cult field. Ca 2 ft high. Flr. whitish
with dark brown spot on side of keel. Dry

roots used as tinder to strike fire.

Root nodules I.

8631 grass

Along edge cult barley ^{field} host of smut
H-490

8632 grass

Along edge cult barley field host of rust
H-491

8633 Oats?

As a frequent weed in barley field

8634 Oats?

Frequent weed in barley field. With leaf
spot

H-492

8635 Cult barley

Selected to show variation of types in
same field (See. no. 8636 - 8642)

8636 Cult barley

2-row, red glume, heads sometimes
drooping, ^{2-6 stems} stooling, (See 8635 note)

8637 cult barley

variable 4 to 6 row, ^{red glumes, not stooling} (see 8635 note)

8638 cult barley

variable 4-6 row, not stooling (see 8635 note)

Leaf rust slight. H-495

8639 cult barley

6-row; short heads, not stooling (See 8635 note)

8640 cult barley

6-row, red glumes, not stooling (see note 8635)

8641 cult barley

6-row, not stooling (See note 8635)

with rust + leaf spot? H-496

8642 cult barley

variable types (See note 8635)

8643 E mmer?

Cult but mixed with other types wheat & barley

Severe leaf spot H-497

8644 E mmer?

Cult but mixed with other types wheat & barley

Leaf spot H-498

8645 cult wheat

mixed with other cereals wheats + barleys

8646 Cult wheat

In field with other grains.

* 8647 Acacia

umbrella like shape

Common cult street tree Addis Ababa

Oct 24, 1950

* 8648 Grass

main grass on airfield makes good sward

Ghinir, Bale Prov. Oct 18, 1950

8649-8651

nighelli air field, Bale Prov. Oct 18, 1950

Hard red soil.

* 8649 Grass

* 8650 "

* 8651 "

* 8652

Bulbous plant. "Hyasena onion" spotted leaf,

1 leaf to each bulb, leaf flat on ground.

with upraised margins. moist black soil

growing in grass. Ghinir, airfield, Bale Prov.

Fl. said to be green.

Oct 18, 1950

Bulb. I.

Possible ornamental, rock garden?

* 8653

Bulbous plant in group 5-6 stems. Flr. tube
orange with greenish base.
Goba, Bale Prov. 10-18-1950

* 8654 Cytt peach

Thermal

Bath House Addis Ababa Oct 15 1950

Flr. dark red. Severe rust (H-501

and leaf curl (H-502

8655-8658

Dessie pool, outskirts Addis Ababa
Oct 15, 1950

8655 Leg.

Growing on rock. Collected for nodules only
no Herb spec.

Nodule I.

* 8656 Leg.

Shrub flr. pale cream, musky odor

* 8657 Delphinium.

+++++

* 8658

Possible ornamental

S.I.

* 8659 Grass

"Sindedo" (Am) used commonly to weave rope,
flat baskets, etc. Seed are a nuisance by
lodging in sheep wool. Plant not grazed by
any animal. Yakota, 20K. S.W. A. Ababa 10/19/50

* 8660 Grass

Fence row, Addis Ababa Oct 24, 1950

* 8661 Crucif

Vacant ground, Addis Ababa Oct 24, 1950

(Same as 8662?)
S.I.

* 8662 Brassica? niger?

Common in streets of Addis Ababa, Oct 24, 1950

2³ ft. Growing with 8661. Oil seed?

S.I.

* 8663 Grass

Common weed A/Ababa Oct. 10, 1950

* 8664 Grass

Outskirts A Ababa Oct 15, 1950

* 8665 Millethia ferruginea

"~~tree~~" "borborra"

Small tree. Cult. Addis Ababa Oct 10, 1950

Is found wild. Pounded seed used as

fish poison.

S.I. (from another tree - lost yr seed)

~~8666 Cucumis?~~

8666 - ~~8670~~ - 8671 ?

Agurmen Hills

Sinclair Oil Co drilling camp, near Walwal

Ogaden region of Hararge Prov. Oct 26, 1950

Desert habitat. Gravel chert overlay on red soil

- * 8666 Cucumis?

Vine 6-8 in diam, enlarged woody root
 Fruits greenish striped, spines reddish, becoming
 yellow when ripe, ^{slightly} ovoid, up to 1 in long.
~~Flavor~~ Flavor + odor cantaloupe, attracting
 flies + bees. L vs very hispid
 S.I. + S. coll

* 5667 bourd?

Growing with preceding. Vine to 2 ft diam
 but ca 3 in diam. ^{Immature fruit} Green flesh, acrid, bitter
 taste
 S.I.

8668 Cucumis?

Vine not seen, said to be like that of 8666.

- * 5669 ^{S.I.} Citrullus vulgaris?

Growing with 8666. ^{Photo} Fruit 5 in diam
 striped like cult watermelon
 S.I. Vine 3 ft diam.
 2 rows seed flesh white, sweetish

8670 -	Dinedawa	Haraga Prov.
Oct 28, 1950	Desert region	like Ariz.
8670 Leg.		

- 8670 Citrullus vulgaris?

From ^{old} broken fruit on another vine
 Same as 8669? The Sinclair ~~pe~~ employees
 believe this to be escape from cult. watermelon
 but I doubt the statement considering the habitat.
 S.I.

- 8671 *Citrullus vulgaris*?
 same as 8669 but another vine,
 Broken fruit.
 S.I.
-

8672 - 8679

Diredawa, Harage Prov. Oct 28 1950

Desert region like Arizona

- * 8672 ~~Reg.~~ Grass ^{Mr. Wells} yard.
 Cult. as a lawn from sod secured shore
 of lake near Harar.

Is called "Akerna" (Am) and grows every
 where - E. th. ^{stems} used to weave hats &
 small boxes for trinkets

- * 8673 Leg

Cult at Hotel in Diredawa but also occurs
 wild Tree 40 ft high ^{tall slender}. Flr. pale greenish
 white. Old frts & new flrs occur at same
 S.I.

- * 8674 Leg Acacia

Cult tree. about 20 ft high. spreading top.
 Trunk green, very graceful. (see 10/28)

S.I.

- * 8675 *Citrus limonum* var *abyssinica*

Cult tree. Frt. not yet ripe.

* 8676 *Gossypium*

cult cotton very dry field Plants ca 2 ft high

— * 8677 ~~Eragrostis~~ ^{SI} Cult. *Pennisetum*

"dubium" (Ga) ^{"Bulture" (Ti)} Said to be cult. only by
Gallas + Arabs. Seed said not found
in markets. All used in homes to make
bread. Stalks usually single, altho some-
times 1-2 branched. 2-6 ft high.

S. I.

8678 (*Sanseveira*) Aloe?

"reit" (Am)

Cult as ornamental but also common
on dry hills of region, used for sores,
juice of fresh leaf. (See 10232 for fls)
young suckers I only

8679 (*Sanseveira*) Aloe?

Same as preceding but with spotted leaves
young suckers^I only (See 10129 for fls)

* 8680 *Rhamnus prinoides* ^{Oct 30, 1950} "gescio" (Am)

From market Harar. Used as starter
or ferment in preparation of "Talla" +
"teff". Stems used to clean teeth.

* 8681

Dry mt. side betw. Harar & Dire Dawa
Oct 30, 1950 Flr. pale lavender

* 8682 ^{Sempervivum}
^{xerophyte.}
Succulent. yg. lvs. mottled. Flr. orange

Dry mt side near Dire Dawa
Oct 30, 1950 For rock garden

RCI

* 8682^a Asparagus

Roadside between Dire Dawa & Harar

Oct. 26 1950

8683

Arrow poison. as used by natives
of Gabre Darre, E. Th. Spec. from
utensil with quiver of arrows. Presented
by Wm. Clift, Geologist Sinclair Oil Co
Camp. Agamen Hills, Ogaden Region
E. Th. Oct. 26, 1950

A.S. only

8684 Cult peach

Small market, Haramai, near Harar
Oct. 30, 1950 Frt. about 1 1/2 long,
insipid flavor, cling stone. Fts. scabby.
S.I., H-505.

8685-8730

market, Direedawa

(28)

SI only

El. 2000 ft

Oct 26 -

Oct 31, 1950

Desert climate

Prov. Hararge

8685 *Dorialis abyssinica*

"coshim" (am) native tree. Fruit collected
in wild. Pulp sweet, edible

8686 Cult orange

Grown at Haramai. Delicious flavor

8687 cult Tomato

Frts red, 1 in diam

8688 *Carum copticum*

"Cumin"

8689 cult barley

8690 " "

8691 " wheat

8692 " corn

yellow + blue grains

8693 Cult sorghum

8694 " "

8695 " "

8696 " pear, mixed var?

8697 " " " "

8698 " pumpkin

8699 " tangerine

Grown at Haramai.

8700 cult barley

8701 " "

8702 " "

8703 " "

8704 " "

8705 " "

8706 " "

8707 " cotton (cfr. Herb spec no. 8676)

8708 " chickpea, mixed var

8709 " wheat, mixed with emmer?

~~H-511~~ ~~Four~~ engot? grains.

8710 Cult barley mixed with wild oats?

H-512 smutted grains ^{some seed infested with insects.}

S. Coll. weed seed contamination

8711 Cult wheat

~~H-511~~ ~~Four~~ engot?

8712 Cult Sorghum

8713 " "

8714 " "

8715 " "

8716 " "

8717 " Castor bean

8718 " broad beans, mixed var.?

8719 *Brassica nigra*
"goman" (Am). Cult. Oil seed.

8720 cult pea

8721 " sorghum

8722 " chickpea, mixed var.

8723 *Carthamus tinctorius*
cult. safflower

8724 cult flax

8725 cult bean
uncommon in Ethiopia

8726 cult. lentil

8727 cult pea

8728 *Eragrostis* mixed
cult "teff"

8729 cult bean, white

~~8730~~ " pepper, red.
" berberri"

8731 - 8758 market. Itarar, Prov.

Hararge Oct. 30 1950 E.L. 4000 ft

Temperate climate S.I. only

8731 *Brassica nigra*

"goman" (Am). Cult. oil seed

8732 cult emmer?

8733 " *Eragrostis*

"teff" Am.

8734 cult pea, mixed var?

8735 " " " "

8736 " " " "

8737 " wheat

8738 " barley

H-511 smut.

8739 cult barley

H-513 smut

8740 cult barley

8741 " wheat

8742 " sorghum

8743 *Carthamus tinctorius*

cult. safflower

8744 cult. lentil

8745 " broadbean

8746 " chickpea

8747 " sorghum

8748 " "

8749 " "

8750 " castor bean, mixed var

8751 " pumpkin

8752 " chickpea mixed var

8753 " corn ^{a few}

grains yellow, with a few blue ones

8754 cult corn

grains yellow with a few blue ones

8755 cult sorghum

8756 Eragrostis
cult teff, mixed var?

8757 Eragrostis
cult Teff, mixed var?

8758 Cult flax

8759 Cult castor bean
market, Addis Ababa Oct 10 1950
Amer. Legation.
SI. only

8760 Cult coffee
market Harar, Hararge Prov. Oct 30 1950
S. Coll only

8761 Cult pea mixed
selected from admixtures in other kinds
of seed. Addis Ababa, Diredawa & Harar
Oct 1950

8762 Cult bean mixed
selected from admixture in other kinds
of seed. Addis Ababa, Diredawa, & Harar
Oct 1950

8763 Cult wheat mixed with emmer?
selected from admixture in other kinds
of seed addis a. Diredawa & Harar
Oct 1950

8764 Cult Barley mixed
selected ditto above

- 8765 *Trigonella*

"abbehe" (Am) cult. used as flavor for butter, as spice in cooking also ground with water as a baby food. ^{market} Addis Ababa
Oct 12 1950

SI

- 8766

"matere" ^(Am) Fruits of a wild plant used as remedy for tape worm.

SI

- 8767

"incoco" (Am.) Fruits used as remedy for tapeworm. A wild plant.

- 8768

"Feto" (Am) Cult. plant said to be about 1 ft. high. Seed ground + used to sweeten butter - also used in making "teff" bread
(See no 9038)
SI.

- 8769 *Phytolacca dodecandra*

"indode" (Am) Fruits ground to powder + sprinkle on wet clothes as soap. (See 9462, 9468)
~~market~~ SI

- 8770

"cachemmo" (Am) wild plant, seed used as remedy for tape worm

SI.

- 8771 *Trigonella*
 "abishe" (Am). Cult. see data for 8765
 SI market Diredawa, Oct 1950

- 8772
 "qurqura" (Am) Forest tree, F. its edible
 ditto local
 SI

- 8773
 "feto" (Am) Cult. (same data as 8768)
 SI market, Addis Ababa Oct 16 1950

- 8774 *Rosaceae?*
 Low tree, fruit edible, forest tree
 market, Harar, Oct 30 1950
 SI

- 8775 Coffee
 Cult. between Diredawa + Harar, Oct 30 1950
 Growing without shade.
 SI.

- 8776 Cult peanut
 Shop, Addis Ababa, Nov. 4, 1950
 SI

8777 - 8794 Small market Addis Ababa
 Nov. 6 1950 SI only

- 8777 Cult broadbean
 (sprayed with aerosol) to kill weevils

- 8778 Cult barley

- 8779 Cult barley
- 8780 " "
- 8781 " "
- 8782 " "
- 8783 " "
- 8784 " "
- 8785 " "
- 8786 " "
- 8787 " pea, mixed?
- 8788 " broadbean mixed?
- 8789 " " " ?
- 8790 " wheat
- 8791 " "
- 8792 " " mixed?
- 8793 " "
- 8794 " pea, mixed

Sorted from other kinds seed, ~~ma~~

8795-8804 Shops Addis Ababa

Nov. 12, 1950 SI only

- 8795 Cult bean, white
- 8796 " " , pale brown
- 8797 " " " " sprayed with aerosol
- 8798 " " white
- 8799 " " mottled red
- 8800 " " " "

- 8801 Cult lentil
- 8802 " peanut
- 8803 " "
- 8804 " beans, mixed.

Selected from admixture in other kinds
of seed.

8805-8817 ^{market} Debra Markoz, Gogjam Prov
Nov. 15, 1950 courtesy Col. H. O. Bixby

- 8805 Cult wheat
- 8806 " flax
- 8807 " barley
- 8808 " wheat
- 8809 " Trigonella
- 8810 " chickpea
- 8811 " Eragrostis
- 8812 " Guizotia

oil seed.

- 8813 Cult lentil
- 8814 " broad bean
- 8815 " corn
- 8816 " pea
- 8817 " Trigonella

(37)

8818-8865 market, Addis Ababa nov. 16 1950

SI only

- 8818 - Cult emmer
- 8819 " wheat, mixed white + black, also
some emmer
- 8820 Cult wheat, mixed var
- 8821 " emmer " "
- 8822 " wheat, white
- 8823 " " , mixed
- 8824 " " "
- 8825 " " , mixed?
- 8826 " " , Italian
- 8827 " " , mixed brown + black, + emmer
- 8828 " " "
- 8829 " emmer, mixed

~~8828~~

- 8830 " wheat
- 8831 " "
- 8832 " " mixed red + white
- 8833 " " " " "
- 8834 " emmer, mixed
- 8835 " wheat
- 8836 " " , mixed

- 8837 cult barley, mixed
- 8838 " "
- 8839 " emmer, mixed black & white
- 8840 " barley
- 8841 " " , mixed white & black
- 8842 " " " " "
- 8843 " " " " "
- 8844 " " , blue
- 8845 " " , mixed var. badly contaminated with weed seed.

- 8846 cult barley, mixed black & white
- 8847 " " " var.
- 8848 " " " " , with weed seed

- 8849 cult barley, mixed?
- 8850 " " "
- 8851 " " mixed black & white
- 8852 " " " blue & gray

with smut H-518.

- 8853 cult barley, greenish & white var
- 8854 " pea, mixed var
- 8855 " " " "
- 8856 " sorghum

- 8857 cult chickpea, mixed var
- 8858 " " " "
- 8859 " " " "
- 8860 " " " "

sorted from admixture with other kinds seed

- 8861 Cult. lentil, sorted from admixture of other kinds ^{seed}
- 8862 Cult pea ^{mixed var} " " " " " "

note 3 black seed, also angular seed are
same as no. 8898. Lathyrus

- 8863 Cult wheat mixed sorted from other kinds seed
- 8864 " barley " " " " " "
- 8865 " emmer " " " " " "

8866 - 8867 Cult in garden but occur
also wild in E. Th. espec. - moist places

Nov. 18 1950
Rag Hotel Addis A.

* 8866 ~~Calla?~~ Canna

2 1/2 ft high; flr. red-orange.

R C I . 5 I

* 8867 ~~Caladiolus?~~

Flr red-orange

Corn.
R C I

* 8868 *

Growing in garden among roses + marigolds

Rag Hotel Nov 18, 1950

Flr. dull purplish tipped

8869 - 8889 10K. - 20K n. Addis Ababa

40

Nov 19, 1950

* 8869 Cult chickpea

Flr blue

* 8870 Cult barley

Red glumes

In field with 8871-8876

* 8871 Cult barley ^{shiny} black glumes (see note 8870)

* 8872 " " dull blue black glumes (see 8870)

* 8873 " " dull dark gray " (see 8870)

* 8874 " " strobiling glume bluish, red striped "

* 8875 " " glume cream with red stripes "

* 8876 " " short head + stems "

8877 " "

SI (~~but~~ mixed types see note under 8870) note in the field white glumed kind apparently maturing first.

- * 8878 Grass

Fairly good pasture grass

SI; H-522

* 8879 Grass

In field of barley

+ 8880 Grass

In field barley

* 8881 Grass

In field barley

* 8882 Grass

Tough stemmed used as thatch on houses ^{also for rope}

(41)

+ 8883 Grass - cult ouizotia field

+ 8884 " " " " "

+ 8885 Grass in " " " occurs

+ also - barley etc fields bed pest grows to 3 ft high

+ 8886 Cult Ouizotia

+ 8887 Grass - cult wheat field

+ 8888 " " " " "

+ 8889 " " " " "

8890 - 8894 presented by members of Highways
mission of World Bank.
S I only

- 8890 - Eragrostis Dessie holtsha
"teff" white. 80 K. so, Kombatcha.
11/11/50

- 8891 Cult barley
109 K ^{no} ~~from~~ Addis Ababa toward Dessie
Kombaltsha 11/10/50

8892 Cult barley
65 K no Addis Ababa 11/10/50

8893 Cult barley
170 K n. Addis Ababa 11/10/50

- 8894 Cult barley, white
18 K. no. Debra Birhan, Shoa Prov. 11/10/50

42

* 8895 Cult emmer
immature. About 12K. So. Komboltsha.
11/11/50 Presented by Mr. Williams World Bank

8896 Cult wheat
Heads from field mixed types, 10K. no A/G.
Nov 19, 1950
SI. only

- 8897 Trifolium, wild
Plants dead as this time yr. 20K. no
addis Ababa, Nov 19, 1950
SI only

* 8898 Cult ~~leg.~~ Lathyrus
"Guaya" (Am.) plant when mature about 2 ft high
Seed used as chickpea to make "watt" ^{flr blue}
also to make sort of bread cakes.
SI (from another plant last yr.) ^{might be good} green manure.
note this has been collected before
probably listed as "cult pea".

88990 ^{See no. 8862, + 8907} mit

* 8900 Solanum ^{shrub 6 ft}
cult small ~~tree~~; frts $2\frac{1}{2} \times 1\frac{3}{4}$ in. oval
pointed end, yellow brown color, scattered
longitudinal stripes, flesh red orange color
tomato smell; seed red. A./Ababa XI-20-50
SI (See no 9171) Flr. pale lavender, heavy
sweet scent.

8901 *Rhamnus prinoides*

"gescio" (Am). Cult.

market, Addis Ababa, Nov 10, 1950

Powdered stems & lvs used as "starter"
to make ^{fermented} "talla" drink from barley.

Also broken stems & lvs used also

to make "tejj" fermented honey drink.

Apparently ^{same principle} used as hops in making

beer?

H-525

A.S. only (but see Herb no. 8680) + SI 8902)

8902 *Rhamnus prinoides*

"gescio" (Am) ^{cult} (See notes for 8901 + 8680)

12 K. no. of Addis Ababa Nov 19, 1950

SI only & H-525 only.

8903 - 8908

market + shops Addis Ababa

Nov. 21, 1950

8903 Cult potato

H-526 scurf?

Tuber I

8904 Cult red onion

Tuber I

8905 Cult. mango

SI

8906 Cult garlic

Bulb I

78907 cult *Arg. Lathyrus*

"guaya" (Am). Same notes as 8900 8898.

SI

8908 cult. cucumber
seed from 2 fruits

SI

* 8909 *Juniperus phoenicea* Oct. 20 1950
cult. tree Addis Ababa Graceful tree ca 30 ft.

S.I., S Coll.

8910 - 8913 collected by members of Highway
Mission of World Bank. Nov. 20, 1950 SI only

8910 ~~*Sorghum*~~ cult *E. leusine*
"dagussa" cult. 257K s.w. Addis Ababa on Jimma Road
Plants 2 ft high 2 fields seen.

8911 *Eragrostis*

cult. "teff" ⁶⁹257K. sw Addis Ababa, on
Jimma Road. opposite the mission

8912 cult barley

2-row, black. 125 Km. sw Addis Ababa
on Jimma Road. ~~not~~

8913 *Avena*?

125 Km. s.w. Addis Ababa, on Jimma Road.

8914-8921

small market Addis Ababa Nov 21 1950

SI only

8914 Cult pumpkin

8915 " wheat, mixed.

8916 " " " ?

8917 " " white

Infested with small weevil, none of which now alive.

Insect pest for identification in match box with wheat spec.

8918 Cult wheat, mixed white + brown

8919 " " "

note ^{small seed of} grass seed with wheat like kernel.

8920

"feto" Cult. (same use as 8768.)

with intermixed ^{spherical} round, brown, weed seed.

8921 Cult. Sesame

"senafich" Cult. Seed ground to a paste and eaten with "injera" bread. Has cooling effect. Sometimes used as remedy for stomach disorders. (Note: some books apply this common name to *Brassica nigra*.)

8922 Cult ginger

market Addis Ababa Nov 22 1950

RLI

8923 Cult barley

Vic. Addis Ababa Nov 19, 1950

* 8924 *Datura stramonium*?

common vacant ground + streets of Addis

Ababa Nov. 23, 1950

SI + S. Coll.

Root enlarged
white, radish
like.

Used to cure sores.

Flr. pale cream.

Plant to 2 ft high

Crushed L.v. rank odor.

* 8925 Cult chickpea

plants sold in ^{green} bunches in streets of Addis Ababa. natives eat green seed raw. Pods 1-2 seeded, frt black. Nov 22/1950
Root nodule I Flr. reddish purple

* 8926 Rumex

a weed ^{To 2 ft high} Addis Ababa Nov 23/1950

Basal lv up to 8 in long;

Heart of rest

H-527 S. coll

8927-8939 markets + stores of Addis Ababa

Nov. 26, 1950

SI only

* 8927 Cult corn, white

with a few yellow, red + blue grains.

* 8928 Cult emmer

> 8929 " "

> 8930 " "

> 8931 " "

> 8932 " "

> 8933 " "

> 8934 " "

> 8935 " pumpkin

> 8936 " "

8937 Avena?

weed seed sorted from cult emmer.

8938 Cult barley ^{cult}
sorted from emmer seed

(47)

8939 Cult emmer
red, sorted from other kinds seed

8940 - 8950 Markets & shops Addis Ababa
Nov. 28 - 29, 1950
SI only

- 8940 *Carthamus tinctorius*
"suff"

- 8941 Cult peanut
H-530

- 8942 " castor bean

8943 " Sesame

"saleet"

8944 Cult. *Grigolia*

8945 " Sesame

"saleet" mixed admixture of a few flax seed

8946 Cult flax

light brown color

8947 Cult flax med. brown color

- 8948 Cult cotton

8949 Cult Brassica

"gomen" (Am) "colza"

Lo used as greens, seed for oil

8950 Cult Brassica

"senafic" (Am) oil seed

8951 Cult lime
 (Seedling trees are). market Addis Ababa Nov 28, 1950
 Fruits globose, 1-1 1/2 in diam. ^{1-4 seeded} slightly ribbed. ^{very juicy.}
 SI ^{Turning yellow when mature}

8952 — 9054 market Bishoftu Dec 2, 1950
 SI only + Duckhorn

> 8952 Cult barley
 H-532 smut

8953 Cult flax

> 8954 " barley, with weed seed
 H-533 smut

> 8955 Cult Barley with weed seed
 H-534 smut

> 8956 Cult barley with weed seed
 H-535 smut

> 8957 Cult barley " " "
 H-536 smut

> 8958 Cult barley " " "
 H-537 smut

> 8959 Cult barley " " "
 H-538 smut

> 8960 Cult barley " " "
 H-539 smut

> 8961 Cult barley " " "
 H-540 smut

> 8962 Cult barley " " "

49 - 8963 cult barley, with weed seed
H-541 smut

> 8964 cult barley " " "

H-542 smut

> 8965 cult barley " " "

H-543 smut

> 8966 cult barley, black, with weed seed

H-544 smut

> 8967 cult Lathyrus

"guaya"

8968 cult Lathyrus

"guaya"

8969 cult pea

> 8970 " " mixed

> 8971 " " "

> 8972 " " "

> 8973 " " "

> 8974 " " "

> 8975 " " "

> 8976 " " "

> 8977 " " "

> 8978 " ~~guaya~~ "

> 8979 " " "

> 8980 " " white

- (50)
- | | |
|--------|---|
| > 8981 | cult corn, mixed yellow, red, blue, white |
| > 8982 | " " " " " " |
| > 8983 | " " " " " " |
| > 8984 | " " " " " " |
| > 8985 | " " " " " " |
| > 8986 | " " 1 ear with yellow & blue grains |
| > 8987 | " " 1 ear " " + 2 " " |
| > 8988 | " broadbean, greenish |
| > 8989 | " " , brown |
| > 8990 | " " greenish |
| > 8991 | " " " |
| > 8992 | " " " |
| > 8993 | " " " |
| > 8994 | " " " |
| 8995 | " wheat, white, a few red grains |
| 8996 | " " " " " " |
| 8997 | " " mixed white & red |
| 8998 | " " white, a few red grains |
| 8999 | " " " " " " |
| 9000 | " " " + brown mixed |
| 9001 | " " mixed white & brown, a few red |
| 9002 | " " brown, a few white, short grain |
| 9003 | " " " mixed? |
| 9004 | " " " " |
| 9005 | " " red, with a few white |

(51)

9006 cult wheat, pale brown, short grain
with weed seed.

> 9007 cult pepper
"ferberri" →

> 9008 " " "

> 9009 " " " conical 1-1½ in long.

9010 cult sesame
"salcet".

> 9011 cult sorghum

> 9012 " "

> 9013 " "

> 9014 " castor bean

> 9015 " flax

> 9016 " "

> 9017 " "

> 9018 " "

> 9019 " Carthamus tinctorius

> 9020 " Guizotia

mixed with flax & weed seed.

> 9021 cult bean, brown with irregular black markings

> 9022 " " " " " " "

9023 " onion
Bulb I

9024 " "
Bulb I

9025 cult. garlic
Bulb I

9026 cult garlic
Bulb I.

9027 cult. Trigonella (see 8771)

9028 " "

9029 " "

> 9030 cult. Coriandrum.

" dimbelal" (Am.). Used as flavoring in food.

> 9031 cult Coriandrum

" dimbelal" (Am.).

> 9032 cult Brassica "Jegommen" (Am.).

" senafic" = Oil seed. 1 edible lvs.

> 9033 cult Brassica

" senafic" (Am.) = oil seed, "jegommen" (Am.) = edible lvs.
S. coll.

> 9034 cult Brassica

" senafic"

> 9035 cult Brassica

" senafic" ^{colza} 1 Also edible lvs. mixed with small-seeded Brassicae.
S. coll.

> 9036 cult Brassica

" senafic"

> 9037 cult Brassica

" senafic"

> 9038 cult. "feto"

Seed ground to paste and used in making "teff" bread
i.e. "injera" (see no 8768)
S. coll. to identify plant.

> 9039 Cult "feto"

(See 9038)

> 9040 Cult. *Aframomum corarima*

"corerima" (Am). used in cooking as flavor.

9041 Ginger

Roots only

9042 Cult mint.

"Beso-fla" or "abosda" (Am). Lvs + frs used in cooking. Aromatic
S. Coll. (See 9153)

9043 Cult. *Nigella sativa*

"neck^h-azmud" (Am). used in cooking as flavor

9044 Cult wheat

Sorted from other kinds of seed.

9045 Cult barley, mixed

Sorted from other kinds of seed

> 9046 Cult pea, mixed

sorted from other kinds of seed. Note! black seed!

> 9047 Cult broadbean

sorted from other kinds of seed. Note black seed!

9048 Cult bean, black

sorted from other kinds seed

9049 Cult bean, white

sorted from other kinds seed

9050 Cult corn, yellow, red, blue + white

sorted from other kinds seed

> 9051 Cult sunflower
disk 10 in diam. Seed from single head.

9052 Citrus decumana
Cult. "trunco" (Am.)

Frt. 6 in long, by 4 in diam, bright yellow
agreeable aromatic odor, Flesh ^{dry} white, ^{+ tough} slightly
acid, insipid flavor. ^{Eaten raw by natives} Seed from single fruit

H-545 scab? } not juice vesicles.
I-9052 scale } both from a younger fruit (see 9054)

9053 Citrus sp.

Cult. Italian lemon. ^{mild} Lemon color & shape
4 1/2 x 2 1/2 in. agreeable acid flavor, flesh pale green. juicy
Eaten raw, also used for
agreeable odor i.e. to smell. Seed from single fruit.

H-546 scab?

9054 Psidium sp.

"Azaitun" Cult Tree. Frt. almost globular
about 1 3/4 to 2 in long, diam slightly less
~~green~~ yellowish green when ripe. Pulp
deep flesh pink, slightly acid, sweetish.
agreeable odor

* 9055 Citrus decumana

market, Addis Ababa Nov 28, 1950

yg, immature frts. (See 9052)

H-547 scab?

> 9056 Cult bean

"adunguari" Lekele, ^{Wollega} Shoa Prov.
Vine trained on fence around Italian Fin. seed
Plant said to live for 5 yrs. Pods shelled and beans
cooked as lima beans. Delicious. Said to be
introduced from Italy. Nov 25, 1950
S.I. Courtesy Mr Thompson World Bank, Road Comm.

55

9057 Cult seedling lime

lemon shaped, pointed end, $1\frac{3}{8} - 1\frac{7}{8} \times 1\frac{1}{4} - 1\frac{1}{2}$
ribbed. # - 8 seeded ~~not turning yellow on maturity.~~ market Addis Ababa

Nov 26, 1950

Very juicy

SI

H-548 scat?

9058 Cult Tomato. Shop Addis Ababa

Dec 1, 1950 Red, flat, ~~conspicuously~~ slightly
 $1\frac{1}{2} - 2$ by $2 - 2\frac{3}{4}$ diam $\times 1\frac{7}{8} - 2$ in
ribbed, at stem end.
depth. Seed from 2 fruits.

SI

*9059 Cult oleander

Shrub 7 ft. Flr. pink, double.

Ras Hotel. Nov 28, 1950

H-549

9060 Cult strawberry

Shop Addis Ababa, Dec. 2 1950 Frt about

1 in long $\times \frac{1}{2}$ in diam. tapering to point. Good

flavor & odor, color poor. ^{common year around.} Said to be introduced

S.I.

9061 Aloe?

On Blue Nile, half way
between Debra Markos and Fieche. Dec 2, 1950
Courtesy Mrs. Lorraine Tandy

~~Aloe ?~~

"reit" (Am).

1 small plant

H-550

9062 Cult pumpkin

10 X 9 in. mottled orange color, ribbed,

Flesh bright yellow Market Addis Ababa
Dec. 1, 1950

SI.

9063 Cult Tangerine

Cult seedling tree. Frt. $2\frac{3}{4} \times 2\frac{1}{4}$ in.

very Juicy but not as sweet as 8511 or 8699

SI Shop Addis Ababa Dec 5 1950

9064 - 9067
SI + a.s. only

Drug market Addis Ababa Dec 8, 1950

9064

"cachema" (am) Tape worm remedy, wild plant.
SI (see 8770)

9065

"incoco" (am) tape worm remedy - wild plant.
SI (see 8767)

9066

SI "matere" (am) " " " " " "
(see 8766)

9067 *Brayera anthelmintica*

"Kosso" (am) a wild tree, lvs + flr. bracts used
as remedy for tape worm. "Kosso" means tapeworm.

see no. 9074
a.s.

9068 - 9075

On Blue hills, betw. Debra
markos + Fiche. Dec 2 1950 Courtesy
Mrs Lorraine Jandy.

* 9069 Comp.

* 9070 Cult. *Guizotia*
SI

* 9071 *Avena*?

* 9072 Cult *Eragrostis*

* 9073 *Cirsium*

* 9074 *Brayera anthelmintica*

"Kosso" (see no. 9067) Tree.

* 9075 monocot. Flr. orange gold.
SI

9076 — 9197 market, Jimma, Dec. 14, 1950
 unless otherwise indicated
 SI, R & I, Bulbs only

9076	Cult	enmer
9077	"	wheat
9078	"	"
9079	"	"
9080	"	"
9081	"	"
9082	"	"
9083	"	"
9084	"	"
9085	"	"
9086	"	"
9087	"	"
9088	"	"
9089	"	"
9090	"	"
9091	"	"
9092	"	"
9093	"	"
9094	"	pea
9095	"	"
9096	"	"
9097	"	"
9098	"	"
9099	"	"
9100	"	"
9101	"	"
9102	"	"
9103	"	"
9104	"	"
9105	"	"

79106 cult barley, black with a ^{few} white seed. 58
H-552 (smut)

79107 cult barley, yellow with weed seed

79108 " " pale gold " " "

H-553 (smut)

79109 cult barley, dull, dusty greenish black

H-554 (smut)

79110 cult barley, mixed var

H-555 (smut)

79111 cult barley, mixed var

79112 " " pale gold

79113 " " " " and black mixed

79114 " " white

79115 " " mixed, yellow, with a few black

79116 " " ~~yellow, with a few black~~ ^{mixed}

79117 " " mixed

79118 " " "

79119 " " "

79120 " " "

79121 " " "

79122 " " "

79123 " " "

79124 " " pale yellow, with weed seed

79125 " " mixed, mostly black

79126 " " pale gold, with weed seed

H-556 (smut)

79127 cult bean.

79128 " " (see 9198)

79129 " coffee

- 9130 cult coffee
 9131 " "
 9132 " broadbean, mixed
 9133 " " "
 9134 " " "
 9135 " " "
 9136 " " "
 9137 " Brassica sp. oil seed
 9138 " " " "
 9139 " " " "
 9140 " " " "
 9141 " " " "
 9142 " cotton
 9143 " "
 9144 " "
 9145 " "
 9146 " pepper,
 "shirba" (Am.) Up to 1 in. long x $\frac{2}{8}$ diam
 pointed, red
 9147 cult pepper
 "shirba" (Am) same description as 9146
 9148 cult pepper
 "ferberie" (Am).
 red, very pungent odor, about 2 in long by $\frac{1}{2}$ diam
 9149 cult flax seed
 9150 " "
 9151 " "
 9152 " Ginzotea
 9153 ~~*~~
 cult plant. said to be small. "atorda" seed used in
 baked wheat bread for flavor. (See 9042)

- 79154 Cult *Nigella*
 "azmut" (Am.) used as flavor - cooking
- 79155 Cult. "feto" used in making "teff" bread. Also for ^{upset} stomach ^{See 8/68}
- 79156 " " " " " " " " " "
- 79157 " " " " " " " " " "
- 79158 " " " " " " " " " "
- 79159 Cult? *Eragrostis*?
 Sorted from seed samples no. 9155-9158
- 79160 Cult. *Aframomum* *cararima*
 "corerima" (Am) used as flavor in cooking.
- 79161 ^{cult.} *Dioscorea*
 "wauchino" (Ga?) Edible tubers
 Tuber I
- 79162 *Dioscorea*
 "wauchino" (Ga?) Edible tubers
 Tuber I.
- 79163 ~~*Xanthophyllum*~~? *Colocasia*?
 Cult. "Godure" (Am). Edible corms. This listed in
 Mr. Perry Fellows' mss. (no title, dated Nov 1948 p. 14
 as a vegetable - spelled "godavre" - C.O.E. has copy
 of mss.) (See no. 9373)
 corm I.
- 79164 Cult sweet potato
 Root I
- 79165 " potato
 Tuber I
- 79166 Cult potato
 Tuber I
- 79167 Cult potato
 Tuber I
- 79168 Cult potato
 Tuber I Flesh greenish yellow

6) 9169 cult ginger
^{Typha}
~~Bulb~~ I

9170 cult onion
Bulb I

9171 cult Solanum?
"Bruto" (Italian) Common in market
Frt. said to be eaten raw. (Same as 8900)

9172 cult papaya
Flavor excellent. Slightly ribbed $6\frac{1}{2} \times 5\frac{1}{2}$ in
~~SI.~~

9173 cult papaya
 $5\frac{1}{2} \times 3\frac{1}{2}$
~~SI.~~

9174 cult tomato
~~Deep~~ Red, globular $\frac{3}{4}$ -1 in diam
~~SI.~~

9175 cult tomato
Pale red, pear shaped to cylindrical, ending in a nipple
 $1-1\frac{1}{2}$ ^{long} $\times \frac{3}{4} - \frac{7}{8}$ diam. Some frts few-seeded
~~SI.~~

9176 cult corn, white dent, 1 ear

9177 " " " " "

9178 " " " with some yellow & blue grain
semi flint. 1 ear

9179 cult corn, light brown, flint, 1 ear

9180 " " , red, with yellow dent, 1 ear

9181 " " " " " "

9182 " " " " " "

9183 Cult sorghum, 3 heads

62

9184 " " 1 "

9185 " " 1 "

9186 " " 1 "

9187 " " 2 " broom corn type white grain

H-557 smut.

9188 Cult wheat, mixed

Sorted from other kinds of seed.

9189 Cult barley, mixed

Sorted from other kinds of seed.

9190 Cult pea, mixed

Sorted from other kinds of seed

9191 Cult(?) Brassica(?)

Sorted from other kinds of seed.

9192 Cult Citrus decumana

"Trunco" (Am). Seed from 1 ft.

9193 Cult corn, white, with light yellow some grains
Infected with weevils. Ear 11 in long by 2 in dia
Seed from 1 ear. I-9193 H-605

9194 Cult pepper

"ferberri" Orange red. Taper pointed, $2\frac{1}{2}$ -4 in long
 $\times \frac{5}{8}$ diam. Seed from 4 fts.

9195 Cult pepper

"ferberri" Orange red, Blunt pointed.
 $2\frac{1}{4}$ - $2\frac{3}{4}$ $\times \frac{5}{8}$. Seed from 3 fts.

9196 Cult pepper

"ferberri" Orange red, Indented navel-like end.
Bell pepper shape. $1\frac{1}{2}$ - $2\frac{1}{4}$ $\times$ 1 in. Seed from 5 fts.

9197 Cult tomato

Pale red, oblong, blunt pointed, $1\frac{3}{4}$ -2 $\times \frac{7}{8}$ - $1\frac{1}{8}$.

9198-9208

Jimma. Dec 14, 1950
Kaffa Jimma Prov.

9198 Cult bean. (~~Same as~~ ^{See} 9127-9128)
Vine 6 ft. on fence. Also sold commonly
in market. ← (See also 9056)

S. Coll. ~~only~~ H-558

9199 Crotalaria

Dead plant 2 1/2 ft high, near airport. ^{along ditch}

S.I. only

9200 Cult coffee

H-559 leaf spot.

I-leaf miner

* 9201 Acacia

Cult. Small tree 15 ft. Common along streets.

Severely infested with scale insect.

Drought resistant.

S.I. S. Coll. I.

* 9202 Grass

Common everywhere in locality.

Semi drought resistant.

S.I. H-560 smut

⁵⁶¹
H-leaf spot
1

* 9203 Grass

Common.

* 9204 Grass

In thicket, clambering, older stems
bamboo-like.

H-562 leaf spot

* 9205 Grass

(but ~~now~~ dry at this season)
Swamp-like area, edge air port. ^{field}"Sembelele" (Am.) 6 ft. high, slender, tough-
stemmed. Stems commonly used for thatch
and for weaving baskets, hats, ropes etc.

S.I.

H-563 smut

H-564 leaf spot.
(See no. 10080)

* 9206

"Algi" (Ga) Cult. frequently in Jimma. Palm-like
also said to occur ⁱⁿ groves in vicinity.
Said to be used for fiber. 30-ft high, trunk
up to 10 in diam. Flr. greenish. Xerophyte
S.I. (Seed from ground - i.e. last season crop.)
Photo. (See 9992)

* 9207 Canna?

Common. On grassy slope ^{near} stream.
3 ft high, petals lemon yellow with longitudinal
brown markings
S.I. S. Coll.

9208 Musa ensata

Cult. plant. Inflor. cylindrical, about
1 ft diam. 2-3 ft long, Ripe frt. at top, new
frs. at bottom.
Photo. S.I. S. Coll. (See 10039)

* 9209 Passiflora

Cult. small vine. Frt. edible. Flr.
whitish, base of filaments lavender
Mr. Jandy compound, Addis Ababa, Dec. 4, 1950
See 9985

9210 Lagenaria

"Chell" (Am.). Cult. Broken frt. found in
street. Frt. oval, 7x5 in. Incompletely
whitish striped, background ^{dark} green with
flocculent, pale green-white, markings.

S.I. Rind thin, flesh white. Addis Ababa
Dec 18, 1950

9211 - 9229 Shops Addis Ababa Dec 19, 1950
S.I. only

9211 Cult peanut

9212 " "

9213 " "

9214 " "

9215 " "

65

9216 cult pumpkin

9217 " broadbean, larger than usual

9218 " bean, white

9219 " " "

9220 " " "

9221 " " "

9222 " " "

9223 " " "

9224 " " pale brown oblong

9225 " " " " "

9226 " " " " "

9227 " " purple ~~pink~~ striped + blotched.

9228 " " " " " globular

9229 " " " " " oblong

9230 " " mixed var. sorted from

other kinds of seed. markets + shops

Bishoftu, Dael Duckom, + Addis Ababa

Dec. 1950. * 9 samples (1 miscellaneous)

SI

9231 Calla abyssinica

cult. + common. Addis Ababa

Corns Dec 6, 1950 (2 lots yg corns + old corns)

Seed Oct. 2 1950

9232 Cult. bean

sorted from other kinds of seed Addis Ababa
+ Bishoftu. Dec 1950.

9233 Cult lima

Globular to slightly oblong, $1\frac{3}{8} - 1\frac{5}{8} \times 1\frac{3}{8} - 1\frac{1}{2}$ Turning yellowish green when ripe. Very juicy. Timma
SI seed from 4 bits Dec 14/1950

9234 Cult red raspberry

From mission at Akaki, 20K from Addis Ababa.
Frt. sold in small quantity to Ras Hotel. Dec
20, 1950. Frt about 1/2 in diam; good flavor
but not very fleshy or juicy.

S I.

9235 - 9358 market Gondar Dec 31 1950

S I only except as otherwise indicated

- 9235 Cult barley, mixed. Weed seed.
H-566 (smut)

- 9236 Cult barley, mixed.

- 9237 " " "

H-567 (smut)

- 9238 Cult barley, mixed

- 9239 " " "

- 9240 " " , light brown cream

H-568 (smut)

- 9241 Cult barley

- 9242 " "

H-569 (smut)

- 9243 Cult barley, black + white mixed

- 9244 " "

H-570 (smut)

- 9245 Cult barley, black + white mixed

H-571 (smut)

- 9246 Cult barley, white

H-572 (smut)

67-9247 cult barley
H-573 (smut)

-9248 cult barley
H-574 (smut)

-9249 cult barley

-9250 " " pale gold.

-9251 " " , mixed , mostly black

-9252 " " " " white

H-575 (smut)

-9253 cult barley, mixed, " pale gold

-9254 " " " " white

H-576 (smut)

-9255 cult barley, white

-9256 " " , mixed , mostly black

-9257 " " " " white

-9258 " " white

-9259 " " , mixed black + white

-9260 " " , white

9261 cult tomato

globular $3/4 - 1\frac{1}{4}$ in. dark red

9262 cult tomato

globular $3/4 - 1\frac{1}{8}$ in. dark red

9263 cult tomato

Flattish, irregular lobed, ribbed (seed from 7815)
 $1\frac{3}{4} - 3$ diam $\times$ $1\frac{1}{4} - 1\frac{1}{2}$ depth. light red

- 9264 cult wheat whitish
 -9265 " " , purple + white mixed
 -9266 " " , whitish
 -9267 " " pale brown
 -9268 " " " " , + mixture
 -9269 " " " " mixed
 -9270 " " " cream + mixture
 -9271 " " " " " "
 -9272 " " " " " "
 -9273 " " " brown.

H-577 (smut)

- 9274 cult wheat pale cream
 -9275 " " bright, (~~whitish~~ creamy)
 -9276 " " pale cream

H-578 (smut)

- 9277 cult wheat, pale cream, mixed?
 -9278 " " " " " ?

H-579 (smut)

- 9279 cult wheat, pale cream + translucent mixed
 -9280 " " " " + brown "

H-580 (smut)

- 9281 cult wheat, pale cream + dull brown "
 -9282 " " " dull cream
 -9283 " " " " " + translucent "
 -9284 " " " cream
 -9285 " " " dull cream

H-581 (smut)

- 69 - 9286 cult wheat, dull pale brown + pale cream^{mixed}
- 9287 " broadbean
- 9288 " "
- 9289 " pea
- 9290 " "
- 9291 " "
- 9292 " "
- 9293 " "
- 9294 " "
- 9295 " "
- 9296 " "
- 9297 " corn, mixed white, red + blue
- 9298 " " " " yellow + "
- 9299 - 9303 cult cotton
- 9304 cult wheat, mixed, sorted from barley 9249
- 9305 " " purple, " " " 9248
- 9306 " " " " " 9244
- 9307 " " " " " 9236
- H-582 (smut)
- 9308 cult wheat, sorted from barley 9241
- H-583 (smut)
- 9309 cult wheat, sorted from " 9242
- 9310 " " purple, sorted from other kind seeds
- 9311 " " mixed " " " "
- 9312 " " brown + purple " " barleys 9246-9247

- 9313 Cult flax
 9314 " "
 9315 " *Eragrostia*
 9316 " "
 9317 " *Brassica*, oil seed
 " *senafic*"
 9318 " *Brassica*
 " *senafic*" oil seed.
 9319 Cult *Brassica*
 " *senafic*" oil seed. Small seeded.
 - 9320 Cult *Eragrostis*
 "teff" brown + white mixed.
 - 9321 Cult *Eragrostis*
 "teff" mostly white
 - 9322 Cult *Eragrostis*
 "teff" mostly brown
 - 9323 Cult *Eragrostis*
 "teff" mostly white
 - 9324⁻²⁶ Cult. *E. leusine*
 "dagussa"
 cult ~~9327~~
 - 9327¹ *Sorghum* sp.
 "jihalala" (Am.) white grained. Used to make bread
 + ~~tree~~ beer.
 - 9328 Cult *Capsicum*
 9329 " "
 "Berberri" Bell-pepper shape, bright red,
 1-1 1/2 long X 2/4-1 in diam.
 9330 Cult *Capsicum*
 "berberri" Bright red, oblong, tapering to blunt point
 2 1/4 long X 1-1/2 dia

9331 cult.

black "abosda" used as spice in cooking.
(see 9411)

9332 mimusops Kummel?

"shif" (Am.). "cummel" (Ti.)

Edible frt., orange yellow, pear-shaped,
about 1 in long x $\frac{5}{8}$ diam. flesh orange yellow
dry starchy, sweetish, 1 seeded, seed brown
oval, flat. (Chiavenda, p. 109-110, says
frts are 2-5 seeded.) (See 9401)

SI and S. coll.

9333 cult. lime

Frt. globose, $1\frac{1}{2}$ in diam, green yellow,
slightly ribbed, pointed end like lemon.

9334 cult potato 17-587

Tuber I

9335 cult potato

Tuber I 17-604 (scurf?)

9336 cult potato

Tuber I.

9337 cult ginger

Tuber I

9338 cult onion

Reddish

Bulb I

- 9339 Avena?

Weed seed sorted from barley, before making
"talla" beer

"Geygh" (Am.) used ~~for~~ as cattle food.

- 9340 Hordeum sp.

cult - "temesh" (Am). Used for making bread & "talla" beer

- 9341 Hordeum

"temesh"

- 9342 ^{cult.} Hordeum sp.
 "temech" (am)
 - 9343 cult Hordeum sp.
 "temech" black seed. Sorted from no. 9340-42
 - 9344 cult Hordeum sp.
 "temech" blue seed. Sorted from no 9340-42
 - 9345 cult barley
 sorted from no. 9342 + 9343.
 - 9346 cult barley
 sorted from other kinds seed.
 - 9347 cult wheat, red
 - 9348 " " white cream, sorted from 9347
 - 9349 " barley, " " "
 - 9350 Avena sp.?
 "bench" (am). Sorted from other kinds seed (see 9339)
 - 9351 Avena sp.?
 "bench" (am) sorted from other kinds seed (see 9339)
 - 9352 cult Barley
 - 9353 " wheat, red & white mixed
 - 9354 " barley, mixed
 - 9355 " " "
 - 9356 " " , " sorted from wheat (9353)
 - 9357 " wheat, " " " barley (9352)
 - 9358 " " red, " " " (9355)

9359-

Gondar

Jan 1, 1951

9359 *Lagenaria*

"chell" (Am) Vine cult for bottle shaped fruits which are univ. used as containers for liquids. Frt. 1 ft long, 6 in diam. at broadest part. Neck 4 in long. Green background, with irregular small whitish flocculent markings
SI only

* 9360 *Phanous staddo*

"^{te}ddo" (Am.) wild plant used when cult.
"geschio" not available for making "talla"
Tree-like shrub to 15 ft

* 9361 Grass

Weed in small garden
SI.

* 9362 Dill? "enselad" (Am)

Cult. used as green salad. Also seed used to flavor alc. drinks. Plant to 6 ft high.

* 9363 Cult Brassica

"senafic" (Am) Seed used univ. in Eth. for cooking oil. Small plot at edge town.
S.I. S. Coll.

* 9364 Malv.

"misana" (Am.) growing edge corn field. Sometimes used by natives for fiber.
SI S. Coll

* 9365 *Oleo chrysophylla*

"weira" (Am) Large tree. Outskirts town.
Timber tree. (See 9372) + 10044)

* 9366 *Buddleia polystachya*

"anfar" Small shrub on embankment. Flr. burnt orange. Crushed lvs. used to wash out talla jugs before starting new batch of beer.

- * 9367 *Cordia abyssinica*
 "uansa" (Am.) Small tree - park. but seen
 also wild, ^{as baobab tree} Fl. white. Frt. edible
- * 9368 *Vernonia myriocephala*
 "graua" (Am). Shrub to 6 ft high. Wild. Flr
 lavender. Lvs used to make "talla" when cut.
 "geschio" is not available. Honey from this plant
 has strong flavor.
- * 9369 *Carthamus tinctorius*
 "suff" Small plot edge ^{cult.} Oil seed plant.
 Rigid plant, ^{3 ft high} lvs stiff & prickly. Flr. yellow
 at top, orange below. This plant sometimes
 grow (3-6 rows) around grain fields to
 keep out cattle & other stock
 Photo. S. I. S. Coll.
- 9370 ~~Cult bean~~ Onnit
~~white, large, oblong, sold in Arab shops also~~
~~sewed in standing house~~
~~S. I. only~~

9371 — 9391 Imperial Gardens at
 Atasamuele, 6 K. w. Gondar. Under irrigation.
 Jan. 2, 1951. Courtesy H.E.

- * 9371 Cult *Solanum* Frt oval, 3 1/2 in long, pale green, seedless
 "roma" "pera melon" Woody herb 1 1/2 ft high Flr.
 lavender. This frt. common in Addis Ababa.
 It is one of ~~three~~ four ~~frt~~ ~~cor~~ usually available
 Oranges, Tangerines, Bananas, & "roma".

- * 9372 *Olea chrysophylla*
 Cult. Yg. tree 6-8 ft high. Foliage juvenile
 (See 9365)

- * 9373 Cult aroid *Colocasia*?
 "godure" (Am). 1 lf only to identify 9/63
 Common in Ethiopia

75

9374 Cult Tomato

Affected with nematode Common on cult tomato in garden. Causing dwarfing, and curling of top lvs.

I. nematode for identification

* 9375 Grass.

along edge of path. Large clumps ⁵⁰⁻⁷⁰ ~~100 or more~~ stems.

S.I. H-588

* 9376 Cult coffee.

First introduction of coffee to region. Seed brought from Harraz.

S.I. I-9376 (leaf minor) H-597 (yellow leaf)

- 9377 Cult coffee

S.I.

- 9378 Cult broadbean

SI

- 9379 Cult broadbean

SI

- 9380 Cult flax

SI

- 9381 Cult Brugotia

SI

- 9382 Cult dill (stems + lvs)

Used as green salad, + as flavor for alc. liquors. (seed)

"enselad" (am) (see 9362)

SI

- 9383-9385 Cult beans

SI

9386 Cult corn

SI Grains, yellow, white + blue, ~~flint~~ flint. 2 ears

- 9387 Cult corn
S I Grains, yellow, white, & blue, dent. Rows irreg
1 ear
- 9388 Cult corn, Spiral rows
S I Grains yellow, white & blue, dent. 1 ear
- 9389 Cult Corn
S I Grains yellow, white & 2 blue, dent 1 ear
- 9390 Cult corn
S I Grains yellow, white & blue, dent. flint 1 ear
irreg. rows
- 9391 Cult bean
S I

9392 - 9395 Lake Tana, Island Catstele of
Ate Sicinipose, near port of Gorgora
Jan. 5, 1951 Island not inhabited.

9392 Ricinus communis
Growing in ruins of castle. shrub to 7 ft.
S. I. H - 589

9393 Ficus sp
Large tree at shore.
I - scale insect.

* 9394 Crotalaria
Herb. erect, 6 ft. high. branching at top.
S. I. H - 590

* - 9395 grass.
"mudya" very common along trail to
castle. Erect to 5 ft high.
S I.

9396 - 9409 Gorgora, port at n. end Lake Tana
Jan 6, 1951.

9396 Ricinus communis
~~plants~~ Tree-like to 25 ft high, trunk 4 in dia
serving as fence posts.
S I.

77

* 9397 Ficus sp.

medium tree, edge of lake Frt. whitish
with pink blush

* 9398 Grass

In flower garden

S.I.

9399 Tomato

Escaped and well established everywhere.
Weed-like. Lake shore Frt dark red, globular
 $7/8 - 1\frac{1}{8}$ in diam.

S.I.

9400 Tomato

Escaped & well established, weedlike.
Lake shore. Frt. in grape-like clusters of
5-8 frts., dark red, aver. $\frac{1}{2}$ in diam.
Globular.

S.I.

* 9401 mimusops Kummel?

"shif" (am.), "cummel" (Ti).

Tree to 30 ft. Frt eaten greedily by
natives. (Copy notes from 9332) (See 9332)

S.I.

I-

*

9402 Grass

Growing in dense stand of other grasses
esp. wild rice in marshy edge of lake
H-592 (smut) H-593 (leaf speck)

*

9403 Grass

Growing in dense stand of other grass
esp. wild rice in marshy edge
of lake.

*

- 9404 Grass

In dense pure stand, shallow water, cove
of lake. Growing next to rice
5 ft high.

S.I.

* 9405 *Oryza sativa sylvestris*

78

Dense stand marshy edge of cove on lake.
2-3 ft high but semi reclining at this time.
Seed have fallen. Local theory says this is
rice brought in by Portuguese 300 yrs ago
and that plant now well established
around the lake. The governor of the province
however, believes this to be a wild rice.
The natives do not use the grain. (see 9433)

~~S.I.~~ H-594

Photo

* 9406 Convolv.

Vine to 8 ft. Flr. small, dark mauve
closing - afternoon. Common along lake shore
S.I.

* 9407

medium tree. Stamens white
"Tree of Abraham." Frequent in vicinity

* 9408 Cult cotton

Perennial. Small shrubs about 3 ft high
^{at first} Flr. yellow with ~~reddish~~ then turning dark
red at top.

S.I.

* 9409 Cult cotton

Perennial. Several stemmed. To 8 ft high
at edge of lake. Flr yellow then turning
dark red at top

S.F

Photo.

9410 - 9421

along highway n of Borgora
(on Lake Tana) toward village of Coladiba.

Jan. 6, 1951

Bejemedier Prov.

* 9411 Cult.

(9410 out)

"Black abosda" (see 9331)

S.F. S. coll.

used as spice - cooking

99 * 9412 Lathyrus
cult. Only 1 field seen. Flr. wings blue
peel lavender.
S.I. S. coll. nodule I.

* 9413 Tree Bignon.
15-25 ft high, irregular shape
"Zana". Wood ~~very~~ very hard, used to make
native plows, which said to be unbreakable.
Flr + frts at same time on this tree.
Flr. whitish with ^{new lvs just appearing} cyclamen pink markings
~~orchid~~ orchid-like, pleasant perfume,
would make ^{fine} ~~good~~ ornamental.
S.I. Photo.

* 9414 Eleusine coracana
"dagussa" cult. commonly here. Used to
make bread (injira) and taller (beer)
S.I.

* 9415 Grass
In dagussa field, 50-75 stems, prostrate
S.I.

- 9416 Eleusine coracana
"dagussa" cult.

9417 Cult flax (S.I.)

S.I. S. coll

- 9418 Cult wheat
not much cult. in this region. maturing in
S.I. extremely hard & dry, black soil

9419 Cult sorghum

"Zengada" ~~or~~ 4-5 ft high (3 heads)
H-595 (emut - causing loss about 1/2 crop)
see the farmer's estimate.)

S.I.

9420 Cult sorghum

"Zengada" Plants 2-3 ft high, heads small
S.I. H-596 (smut)

9421 Cult sorghum

"jihala" plant 2 ft high. in field with no 9420
(see 9325-9327)

S.I.

9422-²³ Cult strawberry

Small like^a wild strawberry, conical, about
9422 $\frac{1}{2}$ long. (Grown only at Imperial Gardens
color red, flavor excellent)

S.I.

Abasamuele,
6 K w. Gondar
under irrigation
Jan. 20, 1951

9423 Cult orange

Grafted 1 yr old. with severe brown scale
+ mosaic?

H-602 I-

9424 ⁹⁴³¹ Tabat

Tabat, village about 40 miles n. Gondar

Jan. 5, 1951 ^{named var.} Presented by H.E. Bitwoded
Andargachew Messaye, Governor of

S.I.

9424 Cult wheat

"Anbete" (Am.) (meaning grasshopper)

9425 Cult wheat

"Italian wheat"

9426 Cult wheat

"Jorade"

81

— 9427 cult wheat
"red" "keyi" (an)

— 9428 cult wheat
"mikre"

— 9429 cult wheat
"jigole"

9430 cult wheat

"Emuphy" (meaning fold)

9431 cult wheat

"dog teeth" "ywscha with"

Lake Tana in 1935 report
on Lake Tana Outlet
control works & Lth.
Highways. J.C. White
Eng. Corp. N.Y.
p. 156-157

9432 *Eragrostis*

Wild. Black seed. This seed gathered
for food when cult. *Eragrostis* crop fails.

SI. Courtesy of H.E. (See 9916 + 10088)

Grows vicinity of Gorgora, Lake Tana

Dec 1950

9433 *Oryza sativa sylvestris*

Common in marshy soil of cooves Lake Tana
not eaten by natives. Dec 1950

Courtesy of H.E.

SI. Also hulled sample for trial as food
makes good porridge. per H.E.

(See 9405) Copy data from 9405

9434 — 9447 market Gondar Jan 8 1951

named var wheats, etc

— 9434 cult wheat

"mikre" Highlands

- 9435 cult wheat
"jigole" Highlands
- 9436 cult wheat
"jigole" Highlands
- 9437 cult wheat
"ambete" highlands
- 9438 cult wheat
"jigole" highlands
- 9439 cult wheat
"jigole" highlands
- 9440 cult Hordeum
"temech" mixed colors
- 9441 cult wheat
"Italian wheat"
- 9442 cult barley
"durana" highlands.
- 9443 - 9445 cult castor bean
- 9446 cult sorghum
"jibala"
- 9447 ~~castor~~ Fig wild
"chola" E edible

9448 - 9452 ~~seed~~ Sorted from other seed
samples. Market, Gondar Dec 31, 1950
SI

- 9448 cult wheat, red
- 9449 " " , mixed white, cream, & brown
- 9450 " Brassica

9451 Grass, sorted from barleys

9452 " weed ~~seed~~, seed, sorted from
barley & wheats

9453 - 9454 Cult wheats sorted from
other seed samples, Dabat, Jan 5, 1951

9453 Cult wheat, red, sorted from 9426, 9428, 9429

9454 " " brownish, mixed from no 9427

9455 Cult barley, mixed, sorted from other
seed, Gondar & Dabat, Jan 1951

9456 Cult pea, sorted from broadbean seed
samples. Abasamuele, Imperial
Gardens 6 K. w. Gondar. Jan 2, 1951

9457 Cult papaya

7 1/2 long x 4 1/4 in diam. ribbed, flesh pale
yellow, insipid flavor market, Addis Ababa Dec 19, 1950

SI.

9458 Cult lemon

2 1/4 x 1 7/8 in. Market, Addis Ababa

Dec. 26, 1950

SI

9459 Cult chickpea

Imperial Gardens, Abasamuele, 6 K. w.

Gondar Jan 2 1951

hd. I only

9460 Cult papaya

6 x 5 in. Flesh pale yellow, small cavity.
SI Jimma Dec 14 1950

* 9461 Ruta

Woody herb. 1 1/2 ft high, bushy. Flr. yellow.
Rank, pungent odor. Cult. as spice for cooking
"tenata" (Am.) (See 9491)

* 9462 Phytolacca dodecandra

"indode" "arebe indode" (Am)

Scandent, liana-like at times. Stamens
greenish white; fruit orange when ripe.
Cult. & also wild. Universally used in Eth.
as soap substitute, Lvs or green fruits, pounded
to pulp. Handful of the mass then rubbed
into clothing, in cold water of streams.
S. I.

* 9463 cult grass.

"jijiva" (Am.). Occurs also wild. 5 ft high
erect, rhizomes. Good forage. Also used
for thatch.

* 9464 Citrus limonum, var. abyssinica

One tree ^{cult.} in garden of the Governor.
Flr. pink, ^{unleaved} bud white when open. Petals 4.
slightly ribbed, oblong, 1 1/2 in. Immature?
S. I.

* 9465 Canna

Cult. 1 ft high. Flr. orange red with median
yellow marking. Seed from various plants
not in bloom, therefore perhaps with flr diff.
colors
S. I.

9466 Canna

2 ft high, Flr. lemon yellow
B. I. only

85

9467 *Semprevivum*

cult. (same species as 8682)

S.I.

9468 - 9485

markets, Addis Ababa

Jan 17, 1951

SI only

9468 *Phytolacca dodecandra*"indode" cult. (see ^{see} notes for 9462)~~See 9462~~

S.I.

9469 cult pea

9470 " "

9471 " wheat

"Oybo" (am)

9472 cult wheat

"Italian wheat" said to quick maturing

9473 cult wheat

"habesha" (am)

9474 cult barley, mixed, sorted from no. 9479,

9480, 9482, 9484. Temesch.

9475 cult wheat

red. sorted from no. 9471 - 9473.

9476^{alt} *Hordeum* sp.?

black "temesch" sorted from no. 9479, 9480, 9482, 9484

9477 cult wheat, dull, rusty purple

9478 " " mixed, sorted from other kinds seed

9479 cult *Hordeum*?

"temesch" pale brown grain

9480 cult. *Hordeum*

"temesch" pale brown. grain

9481 Cult Hordeum?

"temech" blue grain Sorted from no. 9479-9480 ⁸⁶

9482 Cult Hordeum?

"temech" pale brown grain.

9483 Cult Hordeum?

"temech" blue grain Sorted from no. 9482.

9484 Cult Hordeum?

"temech" pale brown grain

9485 Cult Hordeum?

"temech" blue grain Sorted from 9484

9486 - 9487 market, Gondar, Dec 31, 1950
SI only

9486 Cult sorghum

"jihala" (Am). (See 9327)

9487 cult. sorghum

"jihala" (Am) (See 9327)

9488 Avena sp.?

Sorted from barleys + wheat, Jimma
market. Dec 14, 1950

9489 Avena sp.?

Weed seed sorted from ~~other~~ seed samples
Market, Bishofte, Dec 2, 1950

* 9490 Tree (Leg)

Cult but occurs also wild Small tree (present example)

"Kachena" (Am) Park Addis Ababa.

Jan 27 1951

SI S. coll.

9491 Ruta sp.

(S coll) SI "tenata" (Am) cult as spice - cooking. See 9461 1/25/51 ^{market addis Ababa}

87 9492 - 9493

Halfway between Addis Ababa

SI + Ambo.

Jan 28, 1951. maturing in dry season
4 mo. since rain

9492 Cult Sorghum
"Zengada"

9493 Cult wheat.

Plants about 1 ft high. No rust seen or other
disease seen

9494 Cult. Tangerine

about 3' in diam. Bright Rich dark orange color
flavor excellent. Have not seen Tangerines as
large as this ~~in~~ before. Shop Addis Ababa

Jan 28, 1951

SI

9495 - 9523

market, Guder

Jan. 30, 1951

Picinus sp.

12K no Ambo. Shoa Prov.

5 samples

are from sack lots

& therefore mixed var. because wholesale buyers
obtain the seed in small quantities to 1/2 kilo
from natives.

SI

9495

9496

9497

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9519

9520

9521, sorted from other Ricinus

9522, sorted from other Ricinus

9523 black sorted from other "

9524 - 9551

market, Guder, Jan 30/1951
12 K No. Amto. Shoa Prov.

SI

9524 Cult wheat, pale purple + brown

9525 " " " brown, a few purple

9526 " " " "

9527 " barley mixed

9528 " " " mostly black

9529 " " " some lavender

9530 " " "

9531 " " " mostly black

9532 " " " gray

9533 " " "

9534 " " " mostly white

9535 " " "

- 89 — 9536 Cult barley, mixed
 9537 " " " black + white
 9538 " " " "
 9539 " corn, yellow, flint, 1 ear
 9540 " broadbean
 9541 " "
 9542 " "
 9543 " "
 9544 " pea
 9545 " " sorted from no. 9540-9543
 9546 " sorghum
 9547 " "
 9548 " "
 9549 " coffee
 9550 Cult sorghum, white, sorted from
 9551 Cult. "Kundo - ^{other kinds of seed.} perpere" (Cam).
 spec in cooking

~~9552 Cult barley, mixed~~

9552-9587 market Ambo Jan 31st 1951
 SE only except as indicated

- 9552 Cult barley, mixed
 9553 " " "
 (9554) ornat ~~+~~ ~~+~~
 9555 Cult barley, mixed
 9556 " " "
 9557 " " " mostly white
 9558 " " "
 9559 " " "

- 9560 cult barley, mixed
9561 " wheat, pale cream, with some red
9562 " " , mixed
9563 " " " , mostly purple
9564 " " "
9565 " " "
9566 " " mixed
9567 " " "
9568 " " "
9569 " " " ?
9570 " " "
9571 Hordeum sp?
"Temech" (Am). mixed pale brown, black & blue
9572 Hordeum sp?
"Temech" mixed colors
9573 Hordeum sp.?
"Temech" mixed colors, mostly pale brown.
9574 Cult sorghum, mixed
9575 " " "
9576 " " "
9577 " broad bean
9578 " "
9579 " pea, mixed
9580 " chickpea, mixed, mostly greenish-cream
9581 " flax seed
9582 " Brassica
"Senafic" (Am.) oil seed
9583 Cult. "nech-abosda" (Am)
spice in cooking

91) 9584 Cult. "nech - agmude" (am)
spice - cooking

9585 Cult "tekure-aborda" (am)
spice - cooking

9586 Cult sweet potato
Root I

9587 Cult tomato
Globular 3/4 - 1 1/4 in. pale red.

9588 - 9590 Garden, Amto Jan 31, 1951
SI only

9588 Cult sunflower

9589 " sorghum

9590 " broadbean

9591 Cult sunflower
Garden of student at School Agr.
Amto. Jan 29, 1951
SI

9592 - 9595 market Amto, Dec 1950
collected by Kassahun Adera.
SI only

9592 Cult wheat (purple)

9593 " " , pale brown

9594 " " , brown, + ~~pale~~

9595 " Hordeum sp?

"temech" mixed colors

9596 - 9597 Garden Amto Jan 31 1951
SI only

9596 Cult sunflower

9597 Cult papaya
flower good, frt. oblong.

9598 - 9601 Farm near Guder Jan 30
1951.

* 9598 Grass
Good ~~pasture~~ forage grass
SI.

* 9599 Grass
Good forage
H-612 (2mut)
SI.

* 9600 Grass

9601 *Calla abyssinica*
Cult
SI.

9602 - Village of Barristorante about 75K
S of addis Ababa
Feb. 1, 1951
SI only

9602 cult wheat, mixed var.

9603 " " " "

9604 " " " "

9605 " " " "

9606 " " " mostly purple

9607 " " " " pale brown

9608 *Ricinus communis*

9609 *Eragrostis* sp
"teff" cult. brown + white

93

9610-9615 markets Addis Ababa

Feb. 2, 1951

SI Cult. *Lathyrus* sp. "guaga" just now being
harvested. ~~in~~ between a/a + Ambo.

9610

9611

9612

9613

9614

9615

9616 Cult watermelon "anguria"

Oblong, 11 in long x $5\frac{3}{4}$ dia

Seed black, flesh red, flavor good

mottled green striped. Seed from 1 fruit

SI

Market a/a Feb 2 1951

9617 Cult watermelon

~~from~~ from ground - market Feb 2 1951

SI Seed black speckled; a/a

9618 -

Sorted from other kinds of seed
markets Addis Ababa, Ambo, Bishoftu,

Guder, Jimma.

1950-1951

SI only

9618 Cult pea

9619 " farley

9620 " wheat

9621 " broadbean

9622 Cult bean
Shop Addis Ababa Jan 25, 1951
Said to be grown in Jimma.
SI (Same as 9056, 9128, 9129)

94

9623 -

Ambo, Jan. 31, 1951

- * 9623 *Solanum* Flr. purple
"Embaye" (Am.) Small, irregular shrub to 2 ft high. Frt green-yellow. ^{globose 3/4 - 1 1/4 in.} Common weed along roadside and embankments.
Frt. boiled and used as soap for laundry
"crushed, raw, and ^{juice} used to cure leather.
SI. Juice frothy & sticky.
H-614 (rust)

9624 *Solanum*

- "Embaye" (Am.) Plant not seen but
use same as 9623. Frts. Lemon shaped
SI → green-yellow, 1 - 1 1/2 diam x 1 - 2 in long.

- * 9625 *Vernonia myriocephala*
"grava" (Am.) Shrub to small tree, up to 20 ft high.
flr. dirty white. Lvs used as "hops" to make
taller beer. (see 9368)

9626 *Lagenaria* Large vine in vacant lot

- "chell" (Am.) Addis Alem, about 60 K. S
of Addis Ababa, Feb. 1 1951 Same as 9210
except larger. 9 x 7 1/2 in. Said to have no
use. Seed black

SI. Photo.

9627 *Phoenix abyssinica*

- "Zembaba" (Am.) Wild date of Ethiopia.
2 cult trees front of Ras Desta Hospital, Addis Ababa
Feb. 5, 1951. Wild trees common between Barantorante
& Ambo (Shoa Prov.) (seen Feb. 1) but not in fruit now.
SI (see 10007 + 10068)

95

9628 Ricinus

market, under Jan 30, 1951

SI

9629 Canna sp.

Cult in yd. but also wild. Flr color not known. Ambo, Jan. 30, 1951

SI (four seed only)

9630 Cult plum

Shop Addis Ababa, Feb. 10, 1951

Globular, about 1 in diam, dark red skin + flesh, freestone, flavor sweet, odor fragrant

S.I.

9631 Volunteer tomato

1 plant as a weed in dry rubble, (without rain for over 3 months) Fts pale red, globular, slightly flattened, $1\frac{1}{2}$ in diam; $1\frac{1}{4}$ in depth. ~~vacant~~ near bldg. Addis Ababa Feb. 9, 1951

SI.

9632 Cult papaya

Shop Addis Ababa Feb. 10, 1951

Frt oblong, $6 \times 3\frac{1}{2}$ in. slightly angled, flesh pale yellow, insipid flavor.

SI

9633 Cult bean

Shop Addis Ababa Feb. 13, 1951

Said to be grown in Goffam Prov.

SI

9634 Cult strawberry

Shop Addis Ababa, Feb. 10, 1951 The largest frts seen so far. (see outline sketch of frts in packet with seed.) About 1 in diam X

 $1\frac{1}{4}$ - $1\frac{3}{4}$ length.

SI

9635 - 972⁴ 1st ^{place} market Dessie, Prov. Wollo 96
Feb. 19, 1951 el. 9-10,000 ft. but fields are from
lowlands i.e. about
SI only except as indicated

9635 - cult barley, mixed

9636 " " "

9637 " " "

H-616 (smut)

9638 cult barley, mixed

9639 " " "

9640 " " "

H-617 (smut)

9641 cult barley, mixed, mostly pale gold

H-618 (smut)

9642 cult barley, mixed

9643 " " "

9644 " " "

9645 " " "

9646 " " "

9647 " " "

H-619 (smut)

9648 cult wheat, mixed

H-620 (smut)

9649 cult wheat, mixed

9650 " " "

9651 " " "

9652 " " "

9653 " " "

9654 " " "

97 9655 cult wheat, mixed

9656 " " "

9657 " " "

9658 " " "

9659 " " "

9660 " pea "

9661 " " "

9662 " " "

9663 " " "

9664 " " "

9665 " " "

9666 " " "

9667 " Broadbean

9668 " "

9669 " "

9670 " "

9671 " "

9672 " Lathyrus

9673 " "

9674 " "

9675 " "

9676 " "

9677 " corn

9678 " "

9679 " short ears.

9680 " "

9681 " sorghum, mixed mostly cream color

- 9682 cult sorghum, mixed, mostly cream + white
9683 " " " " red
9684 " " " white, cream + red
9685 " " "jibala (am)
9686 " " mixed mostly white
9687 " " " " cream
9688 " " " " "
9689 " " " cream + red
9690 " " red
9691 " " mostly red
9692 " " mixed " + cream
9693 " Carthamus tinctoria
" suff "
9694 cult chickpea, mostly pale brown
9695 cult Eragrostis, "teff" brown + white
9696 " " " mostly "
9697 " " " brown + "
9698 " " " "
9699 " Guizotia "mucc" "
9700 " " " "
9701 " " " "
9702 " flaxseed
9703 " "
9704 " Eragrostis "teff" brown
~~Guizotia~~
9705 " Brassica "goman"
9706 " " "
9707 " " "
9708 " " "senafie"
9709 " " "

9710 Cult cotton, "Italian"

9711 " " "Ethiopian"

9712 " bean.

9713 " "ddunguari"

" pea
" ageri atpar" (Am). (means - country pea)

9714 Cult pea

" ageri atpar" (Am)

9715 Impatiens tinctoria

Cult "gursit" (Am) Roots produce
a red dye used to color finger + toe
nails also palm of hands, Especially fallen
(see 10104) women.

R I.

9716 Cult. garlic

Bulb I

9717 Cult onion

Bulb I.

9718 Cult potato

Tuber
Bulb I

H-624 scab?

9719 Cult potato

Tuber
Bulb I

H-625 scurf?

9720 Cult potato

Tuber
Bulb I

9721 - 9723 Cult ^{Capsicum} pepper, mixed var.

9724 Cult coffee

place

9725 - 9780 2nd market, Dessie 2/22/58

SI only

9725 Cult wheat, mixed

9726 " " "

9727 " " "

9728	cult wheat, mixed		
9729	"	"	"
9730	"	"	"
9731	"	"	"
9732	"	"	"
9733	"	"	"
9734	"	"	"
9735	"	"	"
9736	"	"	"
9737	"	farley	"
9738	"	"	"
9739	"	"	"
9740	"	"	" mostly pale gold
9741	"	"	"
9742	"	"	"
9743	"	"	"
9744	"	"	"
9745	"	"	"
9746	H-621 (smut) cult farley, mixed		
9747	"	"	"
9748	"	"	"
9749	"	"	"
9750	"	"	"
9751	"	"	"
9752	"	"	"
9753	"	"	"
9754	"	"	"
9755	"	pea	"
9756	"	"	"

9757 cult pear, mixed

9758 " " "

9759 " " "

9760 " " "

9761 " " "

9762 " " "ageri atfan" am

9763 " " " "

9764 " " " "

9765 " flax

9766 " "

9767 " Lathyrus "guaya" am

9768 " " "

9769 " " "

9770 " broadbean

9771 " "

9772 " "

9773 " "

9774 " "

9775 " corn, mostly white grains

9776 " " , red, 3 ears.

9777 " sorghum, mixed, mostly cream

9778 " " " " "

9779 " " " " red

9780 " Eragrostis " white + brown

9781 - 9794

3rd market, Dessie

2/24/51

SI only except as noted

9781 cult broadbean

9782 " farley

9783 cult barley

9784 " " , mixed

14-622 (smut)

9785 cult pea, mixed

9786 " " "

9787 " cotton

9788 " onion, usually onion is purple in Eth. but in one lot before found these white ones.

Bull I

9789 cult potato, the largest seen so far here
note 1 oblong tuber.

Tuber I

9790 cult lime, lemon yellow, $1\frac{3}{4}$ -2 X^{long}
 $1\frac{1}{2}$ - $1\frac{3}{4}$ diam, slightly ribbed, pointed
end.
SI
Seed from 6 fruits, probably all same tree
Excellent flavor, odor & juice

9791 cult, ~~sesame seed~~ Lepidium

"~~malabar~~" or "senafic" (Am)

9792 cult ~~sesame seed~~ Lepidium

"~~malabar~~" or "senafic" (Am) Used as oil & spice - looking

9793 cult Lepidium

In cookies has spicy flavor
of watercress

"senafic"

S. Coll.

9794 cult. Trigonella

used as spice - cooking

9795-9800*

Tobacco, volunteer, along streets & in yds

Dessie, 2/19/51

SI *This bot to me as tobacco but note shape of capsules cfr S. Coll.

9801-9810 Ricinus communis. Common along streets, vacant places, etc

Dessie. Shrub of various sizes, some 6 in diam. to 10 ft high. All seed from single plant

SI

2/20/51

9811-9812 Cult Ricinus communis

near Kombolsha 1/2 acre plot belonging

to H.E. the Crown Prince. 2/26/51

apparently selected seed. Plants are shrub slender 3-4 branched from ground, about 20 ft high, stems 2 in diam

SI only (See large seed - 8904 - 8910 type in series)

[from 2 plants]

9813-9877

market, Bati

2/26/51

SI only

Wollo Prov.

~~9813-9828*~~

9813-9828

Cult sorghums. Apparently a speciality of this region. Abundant in market. Also harvested fields common in vcs. in valleys and on mts sides. See photos.

Various types as can be seen from seed capsules

One kind grows to 10-12 ft. the stalks, after heads are harvested, are cut and stacked in fields, are used for various purposes, fences around huts, beehives, granaries etc. See photos.

9819, 9822, 9827, 9819, 9822, 9827 sprayed with aerosol.

I-9819 I-9819 weevils + small wasp. 9818 omit

but with the white, or green-yellow predominates

~~8929-8935~~ Cult bean

9829* 9835 "adunguari" (Cam)
 * F-9829 Beetle hatching ^{emerging} from beans
 in tube with seed.

9836-9844 Cult barley
 all with smut see H-623

9845-9846 Cult pea

9847 Cult Lathyrus

9848 " Corn

9849-9850 Cult broadbeans

9851-9853 Cult cotton

9854-9863 Cult wheats

9864 Cult cotton

9865 " Guizotia

9866 " flax

9867 " Lepidium, oil + spice seed

9868 " Capsicum

Variable size and shape but smallest seen
 yet in markets.

9869 Cult Trigonella

9870 Cult Eragrostis. "teff"

9871 Cult. black "abosda"

9872-9873 Cult coffee

9874 Cult bean

mixed var. sorted mostly from 9829-9835

9875 Cult barley, mixed, sorted from other kinds seed

9876 Cult emmer, "adja" " " " " "

9877 " papaya

oblong, blunt pointed, 9 x 4 1/2 in.
 Flavor fair,

9878-9882 About 30 K. e of Dessie in
lowlands, Hot climate. 2/26/51

* 9878 Ricinus

Common, especially along dry stream
beds. Slender stemmed shrub to 10 ft.

S.I. S. Coll.

* 9879 Grass

In small clumps, banks dry streams.

S.I.

* 9880 Grass

Plants dead at this time. ^{Dry slopes} Seed clumps
collected from ^{dry} dead stems.

S.I.

* 9881 (Euphorb)

~~Green on grass~~ Cult. used as living
fences; also as earth binder on steep
embankments of highway. Slender to
6 ft. Juice copious, white, viscous.

S.C.I. Stems 1/2 in diam. Also seen on stony
slopes.

9882 Cult cotton

1 acre field. Perennial, plants about 2 ft
high, straggly.

S.I.

9883-9884 Batie, about 60 K. e. of Dessie
Hot, dry climate, lowland mts. 2/26/51

* 9883 (Asclep.)

"copia" (Am)
"guinde" (~~Eritrea~~). Some parts of
Eth. has industry from seed fibers. Used as
Kupok for cushion stuffing. Shrub 20 ft
common in Rift valley

copious latex. Petals dull purple, inside
purple stained outside.

SI S. Coll. 2 extra fts for Herb spec.

9884 Euphorbia candelabra +
"Kulkuwal" (Am). Common on steep rocky
slopes in associations. Also frequently cult
as ornamental, and as living fence. Copious
latex believed to be poisonous for eyes.

S.I. S. Coll. might grow in Ariz. with seeds ^{growing}

9885-9896 Seed, sorted from mixture with
others kinds. markets Ethiopia

SI only

9885 Cult sorghum, mixed, various markets, 1950-51

9886 " pea, mixed, Dessie + Bati Feb 1951

9887 " wheat " " Feb 19-24, 1951

9888 Avena sp. " " + Bati. Feb. 1951

9889 Cult emmer " " Feb. 1951

9890 " farley " " Feb 19, 1951

9891 " bean " " ~~Feb 19, 1951~~

9892 " broadbean " Feb. 1951

9893 " bean mixed, Gojjam Prov. 1950

9894 " " purple, " " 1950

9895 " " flat, brown mottled, Gojjam Prov. 1950

9896 Ricinus, mixed, ^{various markets} Dec 1950, Jan 1951

9897-9898 Shop Dessie. Feb. 1951

SI only

9897 Cult Tomato.

Irregular size & shape. Flavor excellent even
before fully red.

107

9898 Cult tangerine

Excellent flavor, + juice. Point navel like
(In same bag with 9899 seed whitish (21) faceted)

9899 Cult Citrus decumana

"shaddock" market, Dessie Rough

surface, 7 1/2 x 5 in.

Feb 1951

SI. In same bag with 9898 seed greenish,
smooth.

* 9900 myrtus?

adessa

"~~jehomissat~~" (am) Said to be shrub 2 ft
high. Cult. under irrigation. Sold in
market Dessie as green branches. Lvs
pounded, mixed rancid butter as dressing
+ perfume for hair. Also used cover floors
during wedding ceremonies.

Aroma is spicy, agreeable would make
good perfume. The Amharic name

"~~jehomissat~~" according to Chisvanda
applies to ~~Desmanthus~~.

Said to be propagated
by root cuttings 2/19/51

9901 Juniperus procera?

cult street, addis Ababa Jan 1951

Same as J. procera except drooping
branches

SI

9902 -

Dessie

3/1/51

SI only

9902 Cult pumpkin

Dull gray-green, incomplete whitish
stripes. 10 x 9 in, flesh bright yellow
seed from 1 ft.

9903 Cult emmer

"adja"

9904-

Dessie

3/3/51

* 9904 Ricinus

Slender stems from ground, ^{dark} reddish, 10 ft high. On slope of gully. Seed from 1 plant

SI.

* 9905 Salix ^{trunk 18 in diam}
Large tree, spreading branches, bank of gully.

* 9906 Aloe

Cult but also common wild on dry slopes
Stem 1 ft. long. Flr. red orange.

S.I., S. Coll.

9907 Cult. emmer

SI "adja"

9908 Cult emmer

SI "adja"

9909-

Rift Valley betw. Dessie &

Debra Sinja 3/4/51

9909 - 9911
9909 RicinusCommon, often ^{dense} stands. Seed from single plant

SI

* 9912 Aloe

Flr. orange red, leaf spotted.

SI.

* 9913 Grass

Common, in many places forming dense stands.

SI 3-4 ft high

9914 Tomato

growing as weed near hut in village of Robit.

109

Frt globular, red, $3/4 - 1$ in diam. Seed from 1 plant

SI

9915 Tomato

growing near 9914 Frt globular, $3/8 - 5/8$ in dia

SI

9916 - Field Pasture, high plateau ~~half~~ half way
 + Debra Berhan
 between Addis Ababa, March 5, 1951

* 9916 Grass

black "teff" Good forage. Grows to 18 in high
 in wet season. Seed of this grass collected as
 human food when cult teff crops fail.
 (See no 9432)

SI

* 9917 Grass

probably larger during rainy season.
 With rhizome

SI.

9918 Helianthus

Cult. garden min. Commerce, Addis Ababa
 Feb. 1951. 1 plant 4 ft high, disk 4 in dia
 petals red with + black.

SI.

9919 Cult barley.

market, Bati, Feb 26, 1951

SI

9920 Soap root

Gomburo Hills Camp, Ogaden. year 1951

sent by D. J. Podesta of the Sinclair Petroleum
 Co. natives of region pulverize the root +
 use as soap. Very effective even in hard
 water. It is said that another plant is
 used also, and is even better than this
 root. A.S. to test for cortisone.

9921 — Cult coffee Jimma region
 Samples furnished by Giacomo Frumana
 Tana Co. Ltd. thru Mr. Perry Fellow.
 Year 1951. (Have no idea if seed are still
 viable but will send along for what they
 might be worth. -WGA)

9921 Graded, 2nd quality.

9922 "geffel" var.

9923 "carovana" var

9924 "caracolito" var

9925 "longberry" var

9926 "shortberry" var

9927-9964 all collected between 41° to $42^{\circ}30'$
 and 9° to $9^{\circ}30'$ (see map with field notes) ~~names~~
 Herage Prov. ~~available to determine provinces.~~ Courtesy of
 Mr. A. Papatzacos, of Harar Transport Co.
 thru Mr. Perry Fellow. Feb. 1951
 EI only (Co) = cotton native name.

9927 Cult sorghum, mixed var
 "mashila" (Am.), "bishinga" (Co) Carsa

9928 Cult wheat, mixed var.
 "sinday" (Am.), "camedī" (Co.) Collubi

9929 Cult sorghum, mixed
 "mashilla" (Am.); "fishinga" (Co.) Collubi

9930 Cult sorghum, mixed
 "mashilla" (Am.), "fishinga" (Co.) Chalanco.

9931 Cult barley
 "gibz" (Am.), "gerbou" (Co.) Chalanco

9932 Cult wheat
 "sindai" (Am.), "camedī" (Co.) Chalanco

1111

9933 Cult barley, mixed
"gibz" (Am.), "gerbou" (Co.) Deder

9934 Cult wheat
Deder

9935 Cult sorghum, mixed, mostly white
Deder

9936 Cult sorghum, mixed
Arawagia

9937 Cult wheat
Arawagia

9938 Cult barley mixed
Arawagia

9939 Cult wheat
massala

9940 Cult barley, mixed
massala

H-627 (smut)

9941 Cult emmer
"agia" (Am.), "ez" (Co.) massala

9942 Cult sorghum
massala

I- weevils + small wasps (with seed spec.)

9943 Cult barley
Combulcha

9944 Cult wheat
Combulcha

9945 Cult sorghum
Combulcha

9946 Cult barley
Fiambiro

9947 Cult sorghum, white

9948 Cult wheat
Fiambiro

9949 Cult sorghum, mixed

Fadis

9950 Cult wheat

Courfachelli

9951 Cult sorghum

Courfachelli

9952 Cult barley, mixed

Brawa

9953 Cult emmer

Brawa

9954 Cult sorghum, white

Brawa

9955 Cult wheat

Brawa

9956 Cult sorghum, mixed

Bedonno.

9957 Cult barley

Weter

9958 Cult wheat

Weter

9959 Cult coffee

Harar, best quality

9960 Cult. barley mixed, sorted from no. 9927-9958

9961 " sorghum " " " " " "

9962 " wheat " " " " " "

9963 " emmer " " " " " "

9964 Avena sp. " " " " " "

9965 -

Cult beans, mojjo, 60K.50

Addis Ababa, Shoa Prov. Said to grown by
SI ^{ag} Italian farmer. Feb. 1951. Shop A/A

9965 pale brown, oblong, curved

9966 pale whitish brown, oblong, straight

9967 white, oval

9968 pale brownish, with irregular red markings

9969 mixed var., sorted from 9965-9968.

9970 *Milletia ferruginea*
 "börbörä" (Am.) Commonly cult.
 Mar 12/1951 Addis Ababa, medium tree. Seed crushed
 universally used as fish poison.
 SI S. Coll. Seed from several trees (see 8665)

9971 - 9977 Region of Shashamanna
 Arussi Prov. March 1951 Brought by
 member of I.R.O.

SI only

9971 cult corn

9972 " wheat

9973 " coffee

9974 " "

9975 " barley

9976 " *Eragrostis*

9977 " pea

9978 - 9982* *Ricinus* sp. Along streets,
 stream banks, etc. Addis Ababa May.
 19, 1951 Each coll from separate plant.
 SI (+15 coll.) *2 lots this no. also S. Coll.

9983 indet.

114

Frts of a vine. Latex. Gomburo Hills Camp.
Ogaden, Feb. 1951 arid climator sent by
D.J. Podesta of Sinclair Petroleum Co.
SI

9984 Hippeastrum

Cult. generally in Ethiopia but occurs
wild many places. Addis Ababa
March 1951 Petals ^{dark} red with median
white stripe which gives star-like
effect (See 10048)
Bult I.

9985-9986 Baco, Wollega Prov. March 31
1951 E.L. ca ~~7000~~ 6500 ft.

9985 Cult Passiflora

Edible frs Same as no. 9209 + 10120)
SI (seed immature?)

* 9986 Cult Leg.

Slender to 20 ft. Used as living fence
posts. Apparently rapid grower. Might
do for soil erosion control or paper pulp
SI S. Coll

* 9987 Lab.

Shrub 5 ft high. Very aromatic.

For ornamental?, erosion control, or
possibly for essential oil

Between Baco + Bedo at 6500 ft
March 31, 1951 Wollega Prov.
SI S. Coll

* 9988 Comp

Didessa River, Wollega Prov. Apr 1, 1951

Flr. purple.

9989 - vicinity Lekenti Airfield
Wollega Prov. Apr 2-3, 1951 EL. 6500 ft.

* 9989 Acacia

Characteristic flat top tree of Ethiopia
10-25 ft high depending upon soil
& locality. Foliage thin, casting
delicate shadow. For ornamental
or coffee shade.

SI S. Coll. Photo H-635 H-636

* 9990 Fern

Epiphyte, xerophyte on lower surface
of branches Acacia no. 9989. Seen also
on cult peach.

9991 Cult peach

Several trees 6 in. trunks, 20 ft high
Branches encrusted with lichens
(See H-637 to H-639), mosses, also
ferns & small orchids. Seed for ground
SI.9992 Cult orange I have in Ethiopia
(See 9206) (This plant seen frequently
and always cult. (with one possible
exception)
SI (2 only for ground)

9993 Ricinus

On ground from uprooted plants
cleared from airfield
SI

9994 Ricinus

Fro several plants

SI

* 9995 Grass

Large associations, in clumps 3 ft high

In swale but dry at this season year

SI

* 9996 grass

Shaded bank, edge swale. Only plants seen.

* 9997 Shrub?

On cult. but now fallow land. Plant in shade with leaf spot. Common in area root shoots of tree or shrub. All stems 1 leaf for identification

H-640

* 9998 Rubus

Edge of dry swale. Stems to 7 ft high
Canes with bluish bloom.

SI, S. coll

* 9999 Leg tree

30 ft high

2 ft.

Edge of dry swale. Trunk to 1 ft in diam.
Lvs just beginning to appear. Stems
springy. Seed red. Fruits & seed from
ground. Said to have no use.

"Korch" (Am)

SI, S. coll

117
*

10,000 Cucurbit.

Small vine on dry slope. Fruits heaped like cucumber, greenish striped, then turning yellow, tough skinned, cucumber odor. Perennial; enlarged root used as extract ~~at~~ ^{as (teff)} by dealers, to make beverage more intoxicating
S.I.

* 10,001 Anacace

Flr stem, 3 ft high, spathe white, frts yellow when ripe. Tubers brown, biscuit shaped, ^{4-7 in diam} (lower surface of large tuber with brain-like convolutions) Juice tuber said to be poisonous to skin, i.e. fleisters. For trial as ornamental mottled dark green + gray, lvs not yet developed.

Tuber I, S.I.

* 10,002 Crassulaceae

On slopes, shaded; stems to 3 ft high, root perennial. For trial as ornamental
S.I., S. Coll.

10,003 - Between Lekemti + Baco
Wollega Prov. Apr 4, 1951

* 10,003 Grass

Clumps, 12-16 in high, red soil. 5000 ft al
S.I.

* 10,004 Leg.

^{high} To 30 ft or more, characteristic flat top tree of Eth. landscape. Spineless. Would make good ornamental or coffee shade because of thin foliage which casts

delicate shade ^{grows} E. C. 5000-8000 ft.

178

SI. S. Coll.

* 10005 Liliaceae

In black soil, turned over pasture; bulbs just below surface, largest one 6 in diam. Flr. spike to 3 ft long. Some plants seen at distance, but not available, indicated that flowering progresses in successive bands, from bottom upward. Also ^{seemed} Flr. small & white.

Bult I, SI. S. Coll.

* 10006 Cucurb.

(loculed)

Vine, clambering to 2 yds, frt bright orange, soft spines, explosive, seed coating sticky, frt red. Root perennial. Would make

SI → good ornamental EL. 6000. Soil black

* 10007 Amaryll.

Rhizome, bulbs single, 8 in. below ground, ^{loam} black soil of mt side, growing among matted roots of a shrub. Flr. carmine red. Near Gedo, Wollega Prov. 7800 ft el. Yg lf sheath red spotted
Bult I. Apr. 4, 1951

10008 -

Between Gedo & Ambo

Wollega Prov. Apr 4 1951

* 10008 Liliaceae

To six in diam.

Black loam, bulbs in clumps 7-9, 8 in below surface, flr white, purple stained at base, odor heavy sweet, slightly cloying. EL. 7100 ft.

Bult I.

* 10009 *Phoenix abyssinica*

Common thru out Wollega Prov. at el.
6000-7000. Resists freezing. Spadix bright orange,
it changes from green to orange to brown.
Flesh sticky, dry, with date flavor. Fruits
profusely often 4-5 spadix. Handsome plant.
S.I., S. Coll. For trial as breeding material
also good ornamental.

* 10010 Grass

Reed like to 10ft high. Prefers black soil
but occurs on red. 6000-7000 ft el.

S.I. H-642

10011 - market Lekemti, Wollega

Prov. 6000-7000 ft el. Courtesy H.E.

Makonnen Desta, Governor of Wollega Prov.
Apr. 5 1951 S.I. only as noted

10011 Cult flaxseed

10012 " Umbell.

"white azmud" Cooking spice
mixed with seed of "black azmud"

10013 Cult nigella

"black azmud" cooking spice

10014 Cult lentil *Lens abyssinica*

"misere" Largest seen so far.

10015 Cult *Coriandrum sativum*

"dembalal" (Am) Condiment

10016 Cult Brassica.

"gomen" Used as greens.

10017 Cult Trigonella

"arise" (Am) Used extensively as tonic for infants + invalids, ^{broken bones etc} Seed are germinated as bean sprouts. Then dried and soaked in water to remove bitter taste. The residue is kept in dry condition. Spoonful mixed in milk or eggs drinks believed to contain high percentage vitamins. Sometimes used as poultice for pains also over broken bones. Note a few black seed

10018 Cult peanut

10019 Cult. Apramomum

Condiment

10020 Cult emmer

"adja" (Am) This grain rarely found in markets but every Eth. home keeps a stock. It is used as ~~beverage~~ porridge for infants + invalids esp. for broken bones. Believed to be very good tonic i.e. strengthening.

(I have not seen a single sample of emmer but that did not have admixture of barley seed)

10021 Cult wheat

10022 " "

10023 " sunflower

10024 " broadbean

10025 " E leusine

"dagussa" mixed var.?

Used to make distilled liquor araq. now forbidden by Governor.

- 10026 Cult pea
 10027 " sorghum
 10028 " castorbean
 10029 " coffee

Coffee of Wollega Prov. is shipped to Harar where receives label Harar coffee, then goes to foreign market and is sold to U.S. as mocha coffee. The Governor wants to export ~~Wollega~~ coffee direct to U.S. so will be known as Wollega product.

ST

- 10030 Cult chickpea, mixed var
 Often eaten roasted in E. A., might make good dish in U.S. for use with cocktails + drinks i.e. in lieu of peanuts, potato chips. Also used in E. A. after sprouted is like bean sprouts.

10031 Cult barley

10032 " Guizotia

10033 " corn, mixed colors

10034 " barley, sorted from other seed

10035 " pea, " " " "

note 1 black one.

10036 Avena sp.

Sorted from other seed

10037 Cult ginger

Table I

10038 *Lilium?* *temulentum?*

122

"inkordade" (Am). Sorted from wheat & barley seed. This believed to be poisonous especially in flour (for exported flour said to refused). (See notes under 8523 & 8524 - also letter to Mr. J.A. Steensen dated Feb. 12.)

ST

10039 *Musa* *musica*

Cult. Addis Ababa Apr 1951

Out of 2 dozen fruits only 1 seed was secured. Could this be due to alt. or perhaps to a varietal difference?
(See 9208)

ST

10040-10055 *Hollata*, and vic. - 45 K. S.W

Addis Ababa, S.W. Prov Apr. 17, 1951

E.C. 7000

* 10040 *Asparagus* sp.

corms I, II in black loam, ygs short edible
(See 10114)

* 10041 indet

2 lts. → Soil sample for antibiotic

Flr white & lvs marked. Said to be medicinal
Red soil of slope. Would make good rock
garden plant.

Rhizome I Soil sample for antibiotic

* 10042 *Les*

with tap root. In black loam.

Root I., S.I.

* 10043 *Cult rose*

Semi double, rose color, 4 in diam. Single stem 40 in.
SCI height

10044 *Olea chrysophylla*

medium tree. Wood hard. Wild olive.
(see 9365) Rocky slopes. Red or black soil

SCI, SI

* 10045 Cult rose

In abandoned estate. 10 ft row, all one
var. 10 ft high. Flr ^{seemingly double} red, with black
flush at maturity. Profuse bloomer

SCI S.I. Photo

10046 Cult almond

Kernal has bitter flavor

SI

10047 Cult celery

abandoned estate

SI H-643 (leaf spot)

10048 *Hippeastrum*

cult. (Same as 9984) Abandoned estate.

* 10049 Lab.

Flr whitish, pleasant aroma in crushed
plant. Medicinal.

SI

* 10050 *Milletia ferruginea*

"börnbörä" (Am) Med. tree.

Flr lavender. Seed used kill
fish

* 10051 *Panicum*

In vineyard. With deep rhizome. might be
a bad weed but also good erosion control

SI

* 10052 indet
Growing in pasture with grass. Flr
bright yellow. Good for rock garden

SI

* 10053 Rosa
Common. Sometimes climbing - trees to
30 ft. Flr. single, white, scented.
national flr. Ethiopia. (See 10071)
SI.

* 10054 Grass
In pasture
SI

10055 Clover
In pasture with grass. Flr. white.
Very common (Same as no 10061)
SI.

Market Kollata Apr 17, 1951
10056 -
SI only

10056 cult Lathyrus
10057 " barley
10058 " wheat, mixed var
10059 " " " "
10060 " " " "

10061 - Outskirts of Addis Ababa
Apr 17 1951 on road to Kollata

* 10061 Clover
(Same as no. 10055) very common flr. white
Root mod. I

125* 10062 *Cytisus*

3 ft high; flr. bright yellow, scanty

S.I. 5 coll.

yg. leaf said to be edible.
Gen. Sanford had letter relative to
them from paper company in France.

* 10063 *Lupinus*

Cult. but also occurs wild, 4 ft high.

Flr. blue, keel with yellow markings.

S.I. 2 OK. sev Addis Ababa

Root used Apr 17 1951
as snake bite cure.

10064 -

Commercial seed, New
stock. Shop A/A. Apr. 16, 1951

S.I. only Country origin Italy?

10064 Cult Tomato

"Pomodoro Rosso Grosso"

10065 Cult carrots

"carotte rouge"

10066 Cult chicory

"cicoria"

10067 Cult squash?

(male)

10068 - 10094 Gen. Sanford Farm.

7 OK. so. of A/A. April 14 - 15, 1951

8000 ft el

(no. 10076 - 10083)

mainly by Gen. Sanford.

Coll. for exper. purposes

10068 *Phoenix aegyptiaca*

Seed larger than other 2 collections

(See 10009 + 9627)

S.I.

10069 *Physalis*
cult. ^{fruit} very good in fresh fruit salad.
(Same as 8615)

SI

* 10070 *Cucurbit.*

Perennial root; rank odor; Flr white,
frt explosive. Stems very tough used
~~as rope~~
for tying. 2 frts from last season
on dead stems.

SI.

* 10071 *Rosa*

Flr white; sometimes climbing 30 ft
in trees. National flr. Ethiopia

SI

(See 10053)

* 10072 *Vicia?*

Delicate vine, Flr blue

SI.

* 10073 *Trifolium*

Flr blue.

* 10074 *Trifolium*

Flr white. (Same as 10055 + 10061)

* 10075 *Trifolium*

Flr. blue. In water of irrigation
ditch

SI. (very few seed)

10076 *Trifolium*

Hand harvested. Good forage. (See 10084)

SI

127

* 10077 Grass
" Kumétti " (Am).

(The herb spec from diff. local. may not be same as seed.)

Creeping stem, thick. Good pasture.

SI Likes wet ground, rather coarse but succulent & cattle like it.

10078 Grass? (Am)

" asindabo " Annual, leafy, good pasture (Apparently several kinds of seed present.)

SI.

10079 Grass

(Shortest thatch grass)

" Sanbalit " (Am) Good pasture before flr. stalk forms

SI.

10080 Grass

(Tallest kind)

" Sanbalit " (Am) (Tall ~~grass~~ used for thatch. (Same as no. 9205?) Good forage when yg. is before stalk forms

SI

10081 Grass

" Sanbalit " (middle size thatch grass) Good pasture before stalk forms

SI.

10082 Andropogon chrysostachys

" Balami " (Am) Perennial tussocks.

Good hay.

SI

* 10083 Grass

" Chokprsa " (Am) Good pasture when yg. (Am)

SI - (Note herb spec from diff local but probably same)

10084 Trifolium

Sorted from grass no. 10079
(Same as 10076?)

SI.

10085 Grass

Sorted from no. 10079

SI

10086 Cult barley

"samarcita" (Am). 2 rowed. Any soil
will do. Grain not heavy but bears
profusely

SI.

10087 Cult Eragrostis

SI "red teff"

10088 Grass

"muriye" (Am) Wild grass seed used
to make injera bread. (See 9432, +
9916)

SI.

10089 Cult sorghum

"Zengada" Var. for high elevation.

SI

10090 Cult wheat

"black" for early sowing.

SI

10091 Cult wheat

Sorted from no. 10090

SI

10092 Cult barley

"nack" (Am) means 'white'. 4 rowed.
Best on light soil

SI

129

10093 Cult wheat

"Burraco" Low growing, good yield
matures quickly

SI

10094 Cult barley

"mazzi" (Am) 2 to 4-rowed.

Special crop for new ground where
soil is burned; also late at end of
rainy season

SI

10095 Avena sp

Sorted from barley no. 10057
market Hallata Apr 17, 1951

SI

* 10096 Grass

Hallata Apr 17, 1951. In pasture.

10097-10098 Shops, Addis Ababa
Apr 13, 1951 SI only

10097 Cult quince

Yellowish green, irregularly ribbed

2 - 2 1/4 deep x 2 1/2 - 3 in diam. seed from 7 ft.

10098 Cult Punica granatum

Commonly cult. Yellow ground with
deep red blush. 2 1/2 deep x 3 in diam.
(The largest fruits seen by me anywhere.)
Seed from 1 ft.

15099 - market, Lake Umbagog, Apr. 19, 1951
courtesy H.E. the Governor

S I only

15099 Cult. Sesame

"sahel"

10100 Cult E lensine

"dagussa" (note many black seed - another var.?)

10101 - Sebale region, ca 45K. 50

a/a. On boulder covered hill. EC 8000

Apr. 24, 1951 Soil black loam. Well drained

* 10101 Lil. at base outside, scattered
Flr. white, lvs. marked, 20. just appearing. Flr.
stalk seen. Bulbs in clumps, about 7 in deep.
Bult. I.

10102 Lil.

Lvs appearing first, with rhizome, bulbs
scattered. Base of lvs red spotted
Bult I Bulbs ca 4^{1/2} in below soil. Shade of trees.

* 10103 Lil.

Flr stalk develops + seed mature before
lvs ^{appear} ~~develop~~. Bulbs scattered over
hill top. Slightly shaded by acacia trees

Bult. I, S. I, S. Coll

* 10104 Impatiens tinctoria

"gursch" (An). 15-20 large yam-like
roots + seed plant. Lvs just appearing
juice of root used stain for tracks of the
+ head might make good ornament.
R I. Plant 7 in below +
parallel surface (See 9715)

10105 *Olea chrysophylla*
 small ²
 medium tree. (See 10044)

SI.

10106 *Alseosp.*

Large plants to 2 ft dia

Said to be used as cattle food, mixed with
 salt.

SI

* 10107 Leg. stem

Small, prostrate plant ^{creeping} in association.

in grass. Pasture. Selala region 45 K so

A/A. EL. 7500 ft. Apr 24/1951

Root module I.

* 10108 idet

In damp ditch. Flr. yellow, prostrate, creeping

(To check with us. to see if same)

for ident. of next host.

Selalala region 45 K. so A/A. Apr 24, 1951

E 7500.

10109 —

Low knoll, boulder strewn.

near village of Selulita 35 K. so A/A.

Apr 24, 1951. EL. 7500. Loam soil.

* 10109 Lil.

Los just appearing. With corms

Bulb I. ^{possibly mixed (2 kinds)}
 (2 cots)

10110 Liliaceae

(See as 10103)

SI

10111 Delphinium

growing in matted grass + other vegetation
next to shoulders. A few lvs. just appearing
rhizome I (Lot 1 in dirt. use for isol. of tissue, Lot 2 in vinyl bags)

10112 Lil.

Growing with Delphinium no 10111

Bulb I.

* 10113 Grass

+ widespread

Occasional. Spikes just appearing

SI.

* 10114 Asparagus sp.

Small knoll, steep sided. 30K as
Addis. Ababa Apr 24, 1951

Flr white; fil red when ripe (See no 10043
S.I.)

* 10115 Indet.

Common, growing in grass. Flr bright
yellow 30K. so A/A Apr 24 1951

10116 - Entoto Hills, 20K. so A/A
el 8500 ft. el. Apr 24 1951

* 10116
Medicago?

Small, prostrate, in fallow field + embank
next to highway; Flr yellow
SI. Root nodules I

* 10117 Indet

Fallow fields + highway embankments.
Perennial woody root; flr white, with red
throat. (For trial as border plant or rock garden
SI)

*10118 Grass

Small associations; rhizomes.

Highway embankment.

10119-

Cult A.A. Apr. 25

1951

10119 Papaya

fr 6 X 3 1/2", pointed, flesh pale yellow
flavor good

SI

10120 Passiflora

Fr. bright orange when ripe,
wood coat dark red. (See as 9985)

SI

10121-10122 Ricinus

Salate Region, 45 K. as A/A

Apr. 24/1951

Boulder covered hill

8000 ft el.

SI only (each from single plant)

10123- 10143

Diredawa (Prov. Harage) El. 3700 ft

hot, dry climate: Like Arizona + part of Mex.

May 7 1951 most crops by irrigation only.

* 10123 Convolv.

to 8 ft.

Woody vine, small, flr. pale pink.

Cult. Grounds ~~CHIAO~~ Hotel (~~at cutting~~)
but also wild Good vine

S.I.

* 10124 Apocyn.

Twining shrub to 10 ft; latex; flr.
lavender outside, to much paler
inside. Grounds CHIAO Hotel, cult.

S.I. A.S.

S. coll.

Good vine.

* 10125 Poinciana?

Cult, but occurs also wild. Medium tree
spreading top. Flr. dark red with
overtone of canary yellow. In full bloom

resembles "flamboyant" ^{tree} of West Indies
striking mass of color. It would make
very fine effect as an avenue.

S.I. S. coll.

Fr. from ca 15 in long.

* 10126 Ocimum sp.

"zacavle" (Am). Perennial, ~~slightly~~ woody
at base; flr. pale lavender. Cult. Aromatic
condiment in cooking.

S.I.

* 10127 Leg.

Irregular shrub 4-16 ft; petals yellow, stamens
red. Cult. (This appears to be same species
as cult. escape in New Mexico - there called
"bird of paradise flr." - see spec. in herb.
However N. Mex. plant has vile odor but
not this one.

S.I. S. coll.

135

* 10128 Leg

Slender tree 20 ft. Flr yellow, one petal at first
with brown marks, finally entirely brown
(Same tree as 8674)

* 10129 Aloe

Flrs only. Of no. 8679. Cult. but
plentiful wild: Flr. rose at base,
white at tip, green striped. Lvs. white
spotted.

* 10130 Lantana 10 but also wild, used as ^{wood} fence in Harar,
cult. Leafy shrub to 10 ft. Outer circle flr.
rose pink, inner ones canary yellow.
Flr. lvs. & stems highly aromatic.
Ext. white.
SI. S. Coll.

* 10131 Leg. 3 ft

cult. Shrub, to slender tree, blooms as shrub.

Flr. red, but at first with canary
yellow margin. Beautiful masses
of inflo. would make excellent orn.
said to be native
SI. S. Coll.

* 10132 Grass

weed in garden

* 10133 Grass

weed in garden

* 10134 Grass

weed in garden

* 10135 Grass

weed in garden
SI

- * 10136 Grass
weed - garden
SI
- * 10137 Grass
weed - garden
- * 10138 Grass
weed - garden
SI
- * 10139 Grass
abundant. Appearing after rain.
SI
- * 10140 Grass
Common. appearing after rain
SI
- * 10141 Grass
weed - garden
- * 10142 Indet
Common in region, climbing - trees Xerophyte
Flr yellow. ^{Lv} Sometimes grown as
ornamental. } fleshy.
Leaf for propagation.
- * 10143 Tree
"jommna" (Am) med. tree. Common in
region about Diredawa. Flr. edible
Xerophyte.
SI S. Coll. Flr. sep for herb spec

10144-10151 Error, on railway GOR w
Diredawa. May 9 1951 Desert area
EQ. 3,750 Xerophytic veg.

*

10144 Indet

culm shrub to 15 ft. Scanty. Flr white
 pansy shaped. Native? region
 SI S. Coll.

*

10145 Orotalaria?

Small association. Flr. purplish
 Dry soil (gravelly)

SI. S. Coll.

10145a Lil.

Lvs just appearing, Open, gravelly
 dry soil.

Bulb I

10146 Lil.

Cult. Flr said to be white

Lvs appear first, flr. not yet
 developed

Bulb I

*

10147 Grass

Dry gravelly soil

10148 Sansevieria ^{associated} "radja" (Am)

Very common with 2 sp. Aloe in
 dry region between D/P and

E ver. Lvs seen in market D/P
 where used as string to tie p/bgs

Plant I. Rhizome I.

*

10149 Cenchrus?

Dry gravelly soil

SI

* 10150 Grass

Dry gravelly soil

SI

10151 Grass

Dry gravelly soil. (Herb spec.
lost - but apparently same
genus as 10140)

SI

10152 Cult papaya

Many branched, 30 ft high, trunk 10 in diam.
Frt. oval, pointed end, flavor good 7 in long
Cult Diredawa, May 12, 1951

SI

10153 - 10172 Market, Diredawa

May 14, 1951

SI only

10153 Lagenaria

"chell" (Am). Cult bottle neck
gourd. 11 in long, 7 in at
widest diam. Common in
Eth. ^{containers for} as water jug, etc.



10154 Cult corn

Grains mostly yellow, a few red & blue

10155 Cult sorghum

grains mostly gray, a few red

10156 Cult sorghum pot

grains mostly brownish

10157 Cult sorghum
mixed gray & brown

10158 Cult sorghum
mostly pale brown

10159 Cult pumpkin
Seed used as worm medicine

10160 Cult Brassica

10161 " "

10162 " pepper

10163 Ricinus, mixed
Seed used to grease griddles

10164 Cult farley, mixed

10165 " " " " var

also with Avena + other weed seed

10166 Cult farley

10167 " "

10168 " wheat

10169 " " mixed

10170 " " "

10171 " " "

10172 " "

10173-10194 market inside old walled 140

separata of Harar, Mohammedan section,
May 19, 1951 S I only ^{many kinds of tubers} + people

10173-10185 10188-10190
Cult emmer

"adja" (am). Sold in small measuring cups
by herb vendors. The largest display of the
cereal seen by me in any market. - usually
is not available. - see remarks under
previous collections.

10173 Cult emmer, mixed with wheat

10174 " "

10175 " " " " "

10176 " "

10177 " "

10178 " "

10179 " "

10180 " " mixed with barley

10181 " " " " wheat?

10182 " " " " other seed

10183 " " " " wheat?

10184 " " " " "

10185 " "

10186 Cult peanut

10187 " cotton

10188 " emmer, mixed w other seed

10189 " " " " " "

10190 " " " " " "

10191 cult pepper

10192 " "

10193 " "

10194 " sesame?

 10195-10218 Regular market ^{Harar} on open
 slope. May 20, 1951 S I only

10195 cult wheat, red

10196 " " "

10197 " " , mixed

10198 " " "

10199 " barley

10200 " "

10201 " "

10202 " " mixed

10203 " "

10204 " broadbean, large sized

10205 " " " "

10206 " pea mixed

10207 " " "

10208 " " "

10209 " " "

10210 " " , mostly large white

10211 Cult pepper
dark red, conical $1 \times 2 \frac{1}{2}$ in.

10212 Cult pepper
dull red, slender conical, $\frac{1}{2} \times 2$ in

10213 Ricinus
used mixed with Brassica seed
to grease griddles for cooking
injera bread

10214 Cult sorghum
"machila" mixed green-yellow
+ pale red, DDT powder added
to kill weevils

10215 Cult sorghum
"machila" mixed green-yellow + pale red

10216 Cult sorghum
"machila" green-yellow

10217 Cult sorghum
"machila" mixed green-yellow + pale red

10218 Cult sorghum
"machila" pearl with a few red

10219 - 10223
Arab shop Deredawa,
May 22, 1951

10219 Cult mango
Bright yellow, 2 in long $\times 1 \frac{3}{8}$ in diam.

143

in Italian claimed there are merely
immature fruits artificially ripened.
The Arab merchant says not.

10220 Cult date

Oblong, $1\frac{3}{8}$ - $1\frac{1}{2}$ in long with red flesh, on
pale yellow back ground, flesh dry, slightly sweet

10221

Cherry shaped + color, $\frac{3}{4}$ - $\frac{7}{8}$ in diam.
medium sweet.

10222

Cone shaped, $1\frac{1}{4}$ in long, pale gr. yellow, ^{very sweet}

10223

watermelon

10224 -

7 R. w. O/A/

Irregular farm, Legari

May 22 1951

10224 Cult mango,

10225 " "

Old seed said to be brought from
Harar

10226 Cult date

SI. Photo

H-654

* 10227 Aloe

vic of Dire Dawa,

Plant introd.

Smallest of 3 sp. here
May 22 Photo

Lf. pale green with pale
yellow spots

in ornamental

flr. pale sweet, red
with yellow tips

* 10227a Grass

near D/D May 22/1951 but common ^{everywhere}
 in desert region, between D/D & E ver
 spreading extensively by runners
 would make good erosion control.
 SI

* 10228 Cult tree

"Italian cotton tree" ^{large trees} Several ~~plants~~
 seen, Diredawa May 23, 1951. Fiber
 of seed used stuff pillows + mattresses
 SI., S. Coll. 2 fts for herb. spec.

* 10229 Grass

Diredawa, May 23, 1951 Common
 after rains
 SI.

* 10230

Citrus limonum var
abyssinica Legari

Cult. irrigated farm, ^{near} D/D.
 May 22, 1951. Also occurs wild.

Frt. pale green, turning yellow, $1\frac{5}{8}$ long

$\times 1\frac{3}{8}$ in diam., navel-like protuberance
 at stem end, small pointed at opposite end;
 flesh pale green, lime-like, not very juicy,
 flavor poor i.e. not sour, odor good.

slightly ribbed

SI.

145

10231 cult lime?

Market Diredawa, May 14, 1951

Frt 1 1/2 - 2 x 1 1/2 in. diam., ribbed

Skin Lemon yellow, highly aromatic

Flesh pale green, very juicy, mild
lemon flavor

SI

* 10232 Aloe

Cult Diredawa but common & wild
in vic. Fls butter yellow with
pink blush (Same plant as 8678)

10233 -

Harar May 20, 1951

10233 Ricinus

Shrub 15 ft. high.

SI.

Seed from single plant.

* 10234 Indet

Cult. Large tree. Fls pedicel

Chinese red, stigma orange

SI, S Coll.

* 10235 Indet

Cult. Large tree. Fls blue.

In full bloom makes striking
effect

SI. S Coll. Frt for Herb spec

10236 Cult papaya

Diredawa

Frt globular, about 7 in. diam.
May 22, 1951

SI

10237 — Cult beans. ^{market} Harar
 May 21, 1951 All from ^{mixed} same lot offered
 for sale by one vendor. Beans rarely
 found in Eth. markets. SI only

10237 Small white

10238 Large oblong ^{white} with red markings
 around hilum

10239 Small oblong black

10240 Oblong, various shades brown

10241 5 different vars.

10242 Cult papaya

1st Mohammedan section Harar

May 20 1951

Fruit oblong, about 7 in long.

SI

10243 - 10260 Sorted from other kinds
 of seed Various markets in Ethiopia
 1950-1951 SI only

10243 Cult corn.

10244 " pea

10245 " broadbean

10246 " emmer

10247 " farley.

- 10248 cult coffee
 10249 " wheat (hammer?)
 10250 " sorghum mixed
 10251 " " , white
 10252 Avena sp.
 10253 cult Brassica
 10254 Bur clover
 10255 cult chickpea, white
 10256 " Lathyrus
 10257 " pepper
 10258 " Trigonella

10259 Lolium Temulentum?

Said to be cause of poison flour.

10260 miscell seed - for Mr Russell

10261 cult geranium

Pink flr, shining ivy-like leaf.
 Withstands dry season. Used as
 borders, potted plants etc. Favorable
 a/a 6/4, 1951 loc. climbing
 SCI

10262 - 10263 Ricinus

a/a 6/5/51

SI only (each for single plant.)

153

155

H-588 rust

On grass. 9375 Imperial Gardens. at
Abasamuele, 6 K. w. Gondar. Jan 2, 1951

H-589 rust

on wild *Ricinus communis* (9392)

growing in ruins of castle, Island

S. Catstete of Ate Sicinipose, Lake Tana
near port of Gorgora. All plants infected.
Jan 5, 1951

H-590 rust

On *Crotolaria* sp. (9394) Only a few plants
seen. All severely infected. (Ditto local.)

H-591 Polypor.

On lower surface of 1 of 2 remaining beams
of castle. ~~Ditto~~ Wood is *Juniperus procera*.

beams about 8 in. square. Castle was
built in 17th century. (Ditto local)

3 sporophores flat on beam. Larger one
about 1 ft long + 3 in wide at broadest point

²
3 Photo

H-592 smut

On grass 9402 Gorgora, Lake Tana
marshy edge of lagoon. Jan. 6 1951

H-593 leaf speck

On grass 9402 (ditto local)

H-594 leaf streak

On *Oryza ^{sylvestris} sativa* (9405) (ditto local)

H-595 smut

On cult sorghum 9419. Owner field estimates
loss of $\frac{1}{2}$ of crop from this smut. Says local
preventive is dip seed in urine of cattle before
planting. He did not do so because had no

161 wine. Between Gorgora, on Lake Tana +
village of Coladiba, Jan 6. 1951

~~H-596 cult sorghum~~
~~(ditto local)~~

H-596 smut

On cult sorghum 9420 (small plants
2-3 ft high. (ditto local)

H-597 yellow leaf

on coffee. cult. 9376. Causing considerable
defoliation. May be due to dry season.

Imperial Gardens, Abasamuele, 6K w. Gondar,
Jan. 2, 1951

H-598 rust

on cult peach. not severe. (ditto local)

The gardener attempts to control by spraying
with copper sulfide.

H-599 mildew

on cult rose. (ditto local)

H-600 mildew

On cult cucumber. Severe. (ditto local)

H-601 rust

On cult apricot. Slight. (ditto local)

H-602 mosaic?

On cult. grafted orange 1 yr old. (ditto local)

H-603 Leaf blight

On cult banana Very severe. Affecting all
plants. (ditto local) (See H-609)

Photo.

H-604 scurf?

On cult potato 9335. Market Gondar
Dec 31, 1950

H-605 mold

On cult corn. 9193 blister like pustules contain
mold. market Temina Dec 14/1950

H-606 mildew

On cult chrysanthemum, dark red flr.

Amer. Legation, Jan. 16, 1951 Plentiful on 1 plant.

H-607 mildew

On cult Brassica sp. (see no. 9363 for ident.)

of host. Gondar Jan. 13, 1951. Common.

H-608 mildew

On cult Italian squash, of long & yellow.

Gondar Jan 13, 1951 Common but not serious

H-609 leaf blight

On cult banana
Common on all plants seen. Killing ^{all} older leaves

3 spec. (a) leaf sheath around trunk (b) green blades
being to die, (c) dead blades. Could this condition
be due to dry season? (See also H-603)

Gondar Jan. 13, 1951

H-610 rust

On cult. Rhamnus staddo. "teddo".

(see 9360) Gondar. Jan 13, 1951

H-611 leaf spot

On cult oleander, pink, single flr.

Common but not serious Gondar Jan 13 1951

H-612 smut

On grass 9599. near Guder 12K no Ambo

Shoa Prov. Jan 30, 1951 Scarce.

H-613 yellow leaf

On seedling orange 2 yrs old. Causing
yellowing & defoliation. Moderate damage
could this be preliminary leaf miner.?

ditto local

H-614 rust

on Solanum 9623. Occasional on basal

lvs. causing hypertrophy. Ants, Jan 31, 1951

H-615 mummified peach?

1 ft. hanging on tree, the other from ground

Addis Ababa Jan. 1951

~~H-616 smut~~, onH-616 to H smut on cult barleys + wheat
market, Dessie Feb 19, 1951.

H-616

on barley 9637

H-617

on " 9640

H-618

" 9641

H-619

" 9647

H-620

" wheat 9648

H-621 smut

on cult barley 9745 market Dessie 2/22/51

H-622 smut

on cult barley 9784 market Dessie 2/24/51

H-623 smut

on cult barleys 9836-9844 market Batie

H-624 scab?

2/26/51

On cult potato 9718 market Dessie 2/19/51

H-625 scurf?

On cult potato 9719 market Dessie 2/19/51

H-626 stem spot

On Asparagus sp. (wild) Dessie Feb 20, 1951

H-627 Smut

on cult barley 9940, Massala, Harage Prov.

164

Feb. 1951

seed } note Amharic name for smut of grains, wheat
to } barley + sorghum is "aremammo."
JAS }

H-628 Lichen

On dead twigs Ambo, Shoa Prov.

March 30, 1951

H-629 Slime mold

On lower surface of poles supporting
rustic arbor Baco, Wollega Prov.

March 31, 1951

H-630 Polypore

Ditto habitat + local as H-629

H-631 Polypore

Ditto habitat + local as H-629

H-632 Polypore

Ditto habitat + local as H-629

H-633 Rust?

On grass (same as 8659)

Near Ambo, Shoa Prov. March 30, 1951

H-634 Polypore

On fallen branches of tree, near Lakemti
airfield April 2, 1951

H-635 Fungus

Growing on moss lower surface of shaded
branches, Acacia No. 9989 near Lakemti Airfield

April 2, 1951

H-636 Lichen

On dead end branch No. 9989 Ditto local

H-637 Lichen

On branches cult peach, ^{near} Lakeanti
airfield, Apr 2 1951 Very fragile when ^{dry}

H-638 Lichen

On cult eucalyptus. Seen also on
other kinds trees including cult
peach. Quite local Forming dense
patches

H-639 Lichen

On cult eucalyptus. (Seen also on
other kinds trees, including cult peach)
Quite local

H-640 Leaf spot

on shrub or root shoots tree (no. 9997)
On cult land but now fallow
near Lakeanti airfield common plant
all sterile. Only shaded plants with
fungus. Apr 2 1951

H-641 Leaf spot

on cult fig. A/A March 30, 1951
Common.

H-642 Leaf spot

On grass. 10010 Betw. Gedu + Ambo
Wollega Prov. Apr 4, 1951

H-643 Leaf spot

on cult celery ^{no 10047} Abandoned estate
Hollata, 45 K. s.w. A/A. Apr 17 1951
not serious

H-644 Agaricus

on small dead stump. near Hollata

Apr 17, 1951

14-645 Polyp.

On exposed wood in long wound of living

Eucalyptus globulus, ♂ Sanford farm,

50 K. so. a/a. Apr. 14, 1951

14-646 mildew

On cult ^{green} ~~pea~~, Diths local. Common
on all plants but apparently not
causing much damage.

H-647 mildew

On cult. squash. Insects local. Common & severe. The first fruits mature and the vines are killed by disease. Sulfur is not effective.

14-648 mildew

on cult, grape. Hollata, Apr 17, 1951
controlled by sulfur dust.

H-649 Polyps

On stump of *Cecilia* (Prob. same as no. 9989)

Solale region, 45 K. S. A/A. Apr. 24, 1951

H-650 Polyp

On stump of *Acacia* (prob same as 9989)

Selale region 45 K s a/a Apr 24/1951

H-651 Polyprop.

On buried root - Probably Acacia
near no. H-650 with local.

167

H-652 scab

on ^{fruit} cult seedling peach, market
Hollata, Apr. 17, 1951 Discoloring
also the flesh down to stone.

3.

add. H-500 (Apr 10/08 - see list ?)

H-653 Polyp.

on vertical surface, shaded, cross piece
of old pergola. Diredawa May 7 1951

H-654 Leaf blight

On yg. cult. date. many leaves
attacked, killing the pinnae

Irregular form. 7 K. or. D/P. May 22,
1951

H-655 Decayed wood "Buctuca" (Am)

used as incense, market Diredawa

May 23 1951

H-656 Decayed wood

see as above.

169

H-472 ⁽²⁾ On cult. bean

① Leaf (spot + fruit)

Apparently bean is from introduced seed
Flr. red. Spec. of host enclosed
for identification. ~~Severe~~ Infection

plentiful but apparently not severe

Garden in grounds of American Legation
~~to~~ Oct. 13, 1950

H-473 Smut

on cult. sorghum. Only one plant in
garden.

Ditto local. & date

H-474 Rust

on cult corn. Quite severe on 3 rows of
plants. Apparently preventing the ~~setting~~
formation of the ~~fruit~~ ears.

Ditto local + date

H-475 Rust

on cult. corn. Severe on 1 plant out 3

Other 2 not affected.

Ditto local Oct. 6 1950

H-476 rust

on yg seedling peach 2 ft high. Same plant as H-477

Pitto local Oct 6, 1950

H-477

on yg seedling peach ^{2 ft high} affecting all
terminal leaves. Same plant as H-476

Pitto local + date

H-478 rust

on cult peach (No. 8613) Severe,
causing defoliation. ~~on~~ Same plant as H-479

Pitto local + date

H-479 witches broom or

on cult peach (8613) Same plant as H-478

Rather common in vic. but apparently
not causing much damage

Pitto local + date

H-480 mildew

on cult rose, causing blight of fld. buds

Garden Hotel Kaz, A/Ababa Sept. 29, 1950

H-481 leaf spot

On cult. rose causing severe defoliation

Ditto local

H-482 Polyp

On new telephone post Amer. Legation

a. Ababa Oct 6 1950

H-483 virus?

On cult peach. causing distortion of
leaves on 1 branch. Min. of Commerce

a Ababa Oct. 8, 1950

H-484 leaf rust

on cult Barley No. 8624 Slight infection
mixed with severe H-485. ^{near} municipal

Water works dam ² 15K S.W. a. Ababa Oct 8, 1950

H-485 leaf stipe.

on cult. barley No. 8624 Severe infection

causing drying up of lower leaves

ditto local.

with H-484
On same plants

H-486 leaf rust

On cult barley (check this from ^{veg.} spec. if possible)

Severe infection before heading

Ditto near Mun. Water w. dam 20K S.W. addis Oct 8 1950

H-487 leaf rust

on grass 8627 Severe infection. Edge of barley field 1follata, 451K. S.W. A. Ababa 10/9/50
Shoa Prov.

H-488 smut

on cult barley not common perhaps 1/2 of 1 percent. no attempt was made to determine if a specific type of what ~~sort of~~ barley was being affected. i.e. in this field at least 8 types of barley could be discerned, 2-row, 6 row, black glume, nodding heads etc. (See ^{spec.} 8635-8642)
Ditto local

H-489 Leaf spot

On cult pea no. 8629 Killing basal leaves
Plants about 1/2 mature.

Ditto local.

H-490 smut

on grass no. 8631

ditto local edge barley field.

H-491 rust

on grass 8632 edge barley field.
ditto local.

H-492 leaf spot

on weed (oats?) in barley field.

ditto local.

H-493 rust + leaf spot?

on cult barley (check host) Common

ditto local

H-494 leaf spot?

On cult barley Common. ditto local

H-495 leaf rust

slight on cult barley 8638 ditto local

H-496 leaf spot? + rust

on cult barley 8641 ditto local

H-497 leaf spot

On cult emmer? (no 8643) Severe. ditto local

H-498 leaf spot

On cult emmer? (no 8644) moderate infect. ditto loc.

H-499 stem rust?

also leaf spot + leaf rust on cult wheat (?)

check host. ditto local.

H-500 rust

on cult peach pitiflor. In last season does not get infected. Dry season @ Ababa Nov 1950

H-500 rust

on Ranunculaceae? or Rosaceae? ^{prostrate in grass} not in flr.

Infect. plants higher than others. Air field
Goba, Bale Province. Oct. 18, 1950

H-501 rust

on cult peach 8654 ^{severe} Thermal bath house

Addis Ababa Oct 15 1950

H-502 leaf curl

On cult peach 8654 Common. ditto local

H-503 leaf spot

On cult tangerine, Raz Hotel, Addis Ab.

Oct 24 1950 Slight infect.

~~+++++~~

H-504 rust

on cult peach. Harar, Hararge Prov.

Oct 30 1950 Severe

H-505 scab

on cult peach all fruits in market infected

Haramai, near Harar Oct 30 1950

H-506 Rust

on cult corn. Airport, Addis Ababa Oct 26 1950

not serious

H-507 leaf spot

on cult coffee betw Harar + Direedawa

Oct 30, 1950 not very common

H-508 Shot hole

on root shoots of cult peach. Direedawa

Oct. 26, 1950 on same plant as H-509

H-509 rust

On cult peach, not severe but perhaps due

to dry climate. on same plant as H-508

ditto local

H-510 rust

cult corn. mild infect perhaps due to

dry climate. ditto local

H-511 ~~claviceps?~~ ~~Engelm?~~ Smut. from cult barley 8738, market Harar 10/30/50

~~from same place cult wheat no. 8709~~

market Direedawa Eth. Oct 1950

H-512 smut

Infected grains from cult barley no. 8710

market Direedawa Oct. 1950

~~H-513 Engelm?~~

~~from same place cult wheat no. 8711 market Direedawa Oct 1950~~

H-513 Smut
from cult barley 8739
market Harar 10/30/50

H-514 ^{lower}
On dead branch of *Euphorbia abyssinica*
Addis Ababa Sept 30 1950

H-515 Leaf spot
on cult nasturtium, high climbing var.
Amer. Leg. Nov. 6 1950 not severe

H-516 leaf spot
on cult *Eucalyptus globulus* (?)
Addis Ababa Nov. 5 1950 not severe

H-517
on seed cult peanut, from a store Addis
Ababa Nov. 14, 1950

H-518 Smut
on cult barley 8852 market Addis Ababa
11-16-50.

H-519 Smut
in field mixed types barley (See no. 8870 -
8876) 20K n.a./Ababa Nov 19, 1950 (See H 523) ^{not common.}

H-520 rust
on cult peach, pink flied. ^{a few} On, last season
remaining on tree, new crop lvs not yet affected. a/Ababa
Nov 15 1950 Dry season See tree as H-521

H-521 rust
on lvs of root shoots. See tree as H-520
a. Ababa Nov 15 1950 dry season.

H-522

on grass no 8878 ~~no~~ 20K. no Addis Ababa
Nov 19 1950

H-523 Loose smut

on cult wheat 15K. n Addis Ababa
occure. Nov 19, 1950 (Check carefully with
H-519 because spec. were accidentally
mixed.) ~~Can confirm host~~ ^{check}

H-524 Leaf spot

On cult barley (Check host) 15K. no A/Ababa
Nov 19 1950.

H-525 Rust

on Rhamnus prinoides. Cult. (See herb spec.
8902) From dried material in market (no. 8902)
Addis Ababa, Nov 19, 1950 (See herb. spec. 8680)

H-526 Scurf?

on cult potato tubers ⁽⁸⁹⁰³⁾ market Addis Ababa
XI-²¹~~19~~-50

H-527 Rust

on Rumex (8926)^{a weed}, Addis Ababa Nov 23, 1950
Severe on some plants. On lvs + stems.

H-528

On dead blades of cult Musa ansete
addis Ababa Nov 23 1950

H-529 leaf spot

on cult. Eucalyptus globulus? Ras Hotel Dec 1 1950
slight infection.

H-530 seed rot
on cult peanut (8941) market, Addis Ababa
Nov 28-29, 1950

H-531 ergot?
on cult emmer, market, Addis Ababa
Nov 26, 1950

H-532 to H-544

Smut on cult barleys, market, Bishoftu Dec 2, 1950

H-532

on barley no. 8952

H-533

on barley no. 8954

H-534

on barley no. 8955

H-535

on barley no. 8956

H-536

on barley no. 8957

H-537

on barley no. 8958

H-538

on barley no. 8959

H-539

on barley no. 8960

H-540

on barley no. 8961

H-541

on barley no. 8963

H-542

on barley no. 8964

H-543

on barley no. 8965

H-544

on barley no 8966

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H-545 Scab?

On Citrus decumana (no. 9052) Cult.

Fungus spec from a younger fruit ^{market Bishoftu} Dec 2, 1950

H-546 Scab?

On cult. Citrus sp. "Italian lemon"

market, Bishoftu, Dec 2, 1950

H-547 Scab?

On cult. Citrus decumana (no 9055) Im. frts
market, Addis Ababa Nov 28, 1950

H-548 Scab?

on cult seedling lime (9057) market Addis
Ababa Nov. 26, 1950

H-549 leaf spot

on cult oleander (9059) Raz Hotel

Oct 15 1950 only a few lvs affected.

H-550

Felt like mycelium growing between dead, basal
leaf sheaths. Of Aloe? (9061) Blue hills betw
Debra Markoz & Fieche Dec 2, 1950

H-551 Witch's broom

on cult peach. Severe affecting nearly all
terminal shoots. Dr. Jandy compound.
Dec 7 1950

H-552 to H-556

On cult barleys, market, Jimma Dec 14, 1950

H-552 smut

on barley no 9106

H-553 smut

on barley no. 9108

H-554 smut

on barley no. 9109

H-555 smut

on barley no 9110

H-556 smut
on barley no 9126

H-557 smut
on cult broomcorn (no 9187) market, Jimma
Dec 14, 1950

H-558 leaf spot
on cult bean (9198) not important now but
might be during wet season. Jimma
Dec 14, 1950

H-559 leaf spot
on cult coffee (9200) not common. Together
with leaf miner I-9200. Jimma, Dec 14, 1950

H-560 smut
on grass (9202) common. Jimma, Dec 14, 1950

H-561 leaf spot
on grass (9202) common. Jimma Dec 14, 1950

H-562 leaf spot
on grass (9204) severe infection.
Jimma Dec 14, 1950

H-563 smut
on grass (9205) airfield, Jimma
Dec 14, 1950

H-564 leaf spot
on grass (9205) airfield, Jimma
Dec 14, 1950

H-565 miscel.
on cult wheats, sorted from samples 9078-
9093. market Jimma Dec 14, 1950
apparently ergot, 1 smutted kernel, & several
doubtful.

H-566 to H-583 Smuts on cult. barleys
and wheats, market, Gondar, Dec 31, 1950

H-566	On cult barley	9235
H-567	" " "	9237
H-568	" " "	9240
H-569	" " "	9242 9242
H-570	" " "	9244
H-571	" " "	9245
H-572	" " "	9246
H-573	" " "	9247
H-574	" " "	9248
H-575	" " "	9252
H-576	" " "	9254
H-577	" " wheat	9273
H-578	" " "	9276
H-579	" " "	9278
H-580	" " "	9280
H-581	" " "	9285
H-582	" " "	9307
H-583	" " "	9308

H-584 Rust

On cult rose Gondar Jan 1 1951

Seen twice but in same yard.

H-585 Rust

On cult rose Gondar Jan. 1. 1951

same yd as H-584 but different plant. not severe but common on plant.

H-586 rust

On cult corn. From dead leaves in harvested field
Gondar Jan 1, 1951

H-587 scab ?

On cult lime 9333 market Gondar Dec 31, 1950
(cont'd on p. 160)

Shipments

no.

1. S.I. 8511 in air mail pouch addis X-20-1950
2. Coll. 8484-8612 Sea pouch thru Am. Leg. X-25-1950
SI only. Herb spec. to come in next lot.
3. Field data p. 1-6 for no. 8484-8612 Air pouch X-27-50
- 4 S.I. 8613-8764 Sea pouch thru. Am. Leg. X1-6-50
(8658) note ~~SI~~ 8614, 8666, 8667, 8669, 8671, 8677-9
held out for later shipment 8682
- 5 Herb spec. 8513, 8607-8610, 8613-8651, 8653
8656-8666, 8672-8675, 8682
Fungi H-472 to H-504, H-506 to H-514
Sea pouch X1-10-50
6. Yg suckers Sansevieria 8678-9 in 2 ^{sewed} cloth pkgs
Sea pouch X1-10-50
7. Field data ^{Herb spec.} p. 7-14, no. 8613-8764.
" " Fungi p. 1-3, H-472 to H-514
airp. X1-10-50
8. A.S. 8683 Arrow poison from Gabre Darre
airp. X1-10-50
9. Root nodules I 8630 + 8655 airpouch X1-10-50
to Ithya no copy kept of letter
10. S.I. 8775, RCI. 8682, Bulb I. 8652 airpouch X1-24-50
11. SI (in bags) 8769, 8776-8, 8780-8788, 8790-8793,
8795-8804, 8819-8859. Seap. X1-23-50 Am. Leg.

- 6 (188)
12. SI. (envelopes) 8614 (+s. coll.), 8658, 8860, 8866 (+s. coll.), 8669-8671, 8677, 8765-8768, 8770-8774, 8779, 8789, 8794, 8805-8817, 8861-8865, 8877, 8878, 8890-8894, 8896-8898. Seapouch XI-23-50 Amer Leg.
13. A.S. 8901; ~~Herb~~ ^{Fungi} spec. 8652, 8654, 8666, 8667, 8669, 8676, 8677, 8680-8682, 8867-8876, 8878-8889, 8895, 8898, 8909; Fungi H-505, H-515 to H-524
Seap. XI-23-50 am. Leg.
14. Field data, ^{p. 15-19} ~~Herb~~ spec. 8765-8909, & for fungus spec
p. 4 H-515 to H-526. airmail letter am Leg. XI-24-50
15. SI 8951 Air pouch letter no. 6 Amer Leg 12/8/50
16. SI (in cloth bags) 8907, 8915-8919, 8927-8936, 8940-8942, 8948, 8952-8968, 8970-8994, 9007-9009, 9011-9022, 9030-9040, 9046-9047, 9051, 9056 Seapouch Dec. 11, 1950
17. Bulbs, tubers, corms, live plants. 8866, 8867, 8903-8906, 8922, 9023-9026, 9041, 9061
18. SI (in envelopes) ^{Seap. Dec 11, 1950} 8900, 8902, 8908-8914, 8920, 8921, 8923, 8924, 8937-8939, 8943-8947, 8949, 8950, 8953, 8965, 8969, 8995-9006, 9010, 9027-9029, 9042-9045, 9048-9050, 9058, 9060 Seap Dec 11, 1950
19. Herb spec. 8866, 8868, 8900, 8924-8926.
Fungi H-482, H-525 to H-544, H-549
H-550
Root nodules 8925, S. coll 8909, 8924, 8926, 9033, 9038, 9042 Seap. Dec 11 1950
20. { Field data spec. no. 8910-9075 (p. 20-26.) p. 5-6
" " Fungi. H-527 to H-551 airp. XII-15-50
SI. 9052, 9053, 9057, 9063 ~~airp. Dec.~~

Continuation of Shipment Inventories
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